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**ADVISORY  
CIRCULAR**

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**The Training Program on Repair Items of  
Civil Aviation Aircraft Types and Components**

Flight Standard Department

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# **The Training Program on Repair Items of Civil Aviation Aircraft Types and Components**

## **1. Basis and Purpose:**

This advisory circular is developed in accordance with Article 147.30 of “Civil Aviation Aircraft Maintenance Training Organization Certification Regulation” (CCAR-147) and aims to establish the aircraft type/project training standards and specify the aircraft type/item training tasks, in order to favorably improve the training level of aircraft type/item of maintenance personnel and their qualifications and consequently ensure flight safety.

## **2. Applicability:**

This advisory circular is applicable for those training organizations that intend to obtain and have already obtained a civil aviation aircraft maintenance training organization certificate.

## **3. Cancellation:**

Since January 1, 2011, “The Training Program on Repair Items of Civil Aviation Aircraft Types and Components” issued in November, 2, 2005 has been cancelled.

## **4. Description:**

“The Training Program on Repair Items of Civil Aviation Aircraft Types and Components” is a reference file with which the training organization in the training category of Repair Items of civil aviation aircraft types and components can prepare their respective instruction programs. The maintenance training organizations shall develop their own instruction programs in accordance with those training requirements including.....stipulated in the training program.

## **5. The Aircraft Type Training Requirements**

The aircraft type trainings are divided into level-I aircraft type training and level-II aircraft type training. Each type of aircraft type training shall include two parts: theoretical training and practice training.

## 5.1 The Theoretical Training Requirements

5.1.1 The training contents in aircraft type training are divided into following 3 levels and varied with the different training objectives, and are respectively defined as following:

Level 1: Understand the general knowledge on aircraft structure, system and power plant in the system description chapter of AMM.

Course objective: after the training, the trainee can:

- a) Identify the safety warnings on aircraft structure, system and power plant.
- b) Specify the importance of AMM and maintenance practices, for aircraft structure, system and power plant.
- c) Achieve a general understanding on the aircraft system.
- d) Achieve a general understanding on the characteristics of power plant.
- e) Identify the special tooling and inspect equipment required for aircraft maintenance.

Level 2: Be familiar with control and indication system, understand the location and function of important parts, master the knowledge and skill of service and general trouble-shooting.

Course objective: based on the level-1 training requirements, after level-2 training, the trainees shall also be able to:

- a) Be familiar with the cautionary notes during the operation when they access with the aircraft, power plant and system to conduct the maintenance actions;
- b) Understand the knowledge required for main maintenance actions on each main aircraft system during the line (stop-over) maintenance actions;
- c) Describe the special access method during the operation of system and aircraft and master the usage of power sources like electrical power, pneumatic power and hydraulic power;
- d) Identify the locations of important components;
- e) Explain the general functions of main system, including the associated terminology;
- f) Undertake the services of the following systems on the aircraft ramp areas and in stop-over maintenance task: fuel, power plant, hydraulic, landing gear, water/waste and oxygen.

- g) Proficiently use the crew report and airborne report system to perform the general trouble-shooting tasks, and they can evaluate the aircraft airworthiness with MEL/CDL;
- h) Identify and use the proper technique files.
- i) Find out the required procedure used for replacing the parts in main systems.

Level 3: fully master system principle, system operation, the location of component, removal and installation, test as well as the contents of trouble-shooting procedure.

Course objective: based on the requirements of level-1 and level-2 training, after the level-3 training, the trainee shall also enable to:

- a) Conduct the function checks with system, engine and component in accordance with maintenance manual;
- b) Be provided with the relevant knowledge required for their capabilities used to make the decision through the failure analysis and perform the trouble-shooting in accordance with the manuals;
- c) Master the procedure used to replace the typical parts of this aircraft type.

#### 5.1.2 Theoretical Training Content

The level of each chapter in instruction program shall be no lower than the requirements of training program. The instruction program shall be finally detailed to the part of SECTION. The difficulty level of main sections shall be consistent with the difficulty of chapter, while the difficulty of supplementary SECTION may be appropriately reduced (e.g. general introduction).

The theoretical training contents shall satisfy the requirements of following aircraft type training program: (refer to 5.1.1 for the definition of corresponding level):

ATA 章节 Chapter & Section	内容 Content	等级 Level									
		ME-TA		ME-PA		ME-TH		ME-PH		AV	
		I	II	I	II	I	II	I	II	I	II
<b>飞机介绍 Aircraft General</b>											
05	时限/维护检查 Time Limits / Maintenance Checks	1	1	1	1	1	1	1	1	1	1
06	尺寸及区域划分 Dimensions and Areas	1	1	1	1	1	1	1	1	1	1
07	顶起和支撑 Lifting and Shoring	1	1	1	1	1	1	1	1	1	1
08	校水平和称重 Leveling / Weighing	1	1	1	1	1	1	1	1	1	1
09	牵引和滑行 Towing / Taxing	1	1	1	1	1	1	1	1	1	1
10	停放和系留 Parking / Mooring	1	1	1	1	1	1	1	1	1	1
12	勤务 Servicing	1	1	1	1	1	1	1	1	1	1
18	振动和噪声分析 Vibration and Noise Analysis	—	—	—	—	2	3	2	3	1	2
20	标准施工 Standard Practice	1	1	1	1	1	1	1	1	1	1
<b>飞机系统 Aircraft Systems</b>											
21	空调 Air Conditioning	2	3	2	3	2	3	2	3	1	2
22	自动飞行 Auto Flight	1	2	1	2	1	2	1	2	2	3
23	通讯 Communications	1	2	1	2	1	2	1	2	2	3
24	电源 Electrical Power	2	3	2	3	2	3	2	3	2	3
25	设备/装饰 Equipment / Furnishings	1	3	1	2	1	2	1	2	1	1
26	防火 Fire Protection	2	3	2	3	2	3	2	3	1	2
27	飞行操纵 Flight Controls	2	3	2	3	2	3	2	3	1	2
28	燃油 Fuel	2	3	2	3	2	3	2	3	1	2

ATA 章节 Chapter & Section	内容 Content	等级 Level									
		ME-TA		ME-PA		ME-TH		ME-PH		AV	
		I	II	I	II	I	II	I	II	I	II
29	液压 Hydraulic Power	2	3	2	3	2	3	2	3	1	2
30	防冰和排雨 Ice and Rain Protection	2	3	2	3	2	3	2	3	1	2
31	指示/记录系统 Indicating/Recording System	2	3	2	3	2	3	2	3	2	3
32	起落架 Landing Gear	2	3	2	3	2	3	2	3	1	2
33	灯光 Lights	2	3	2	3	2	3	2	3	2	3
34	导航 Navigation	1	2	1	2	1	2	1	2	2	3
35	氧气 Oxygen	2	3	1	2	1	2	1	2	1	2
36	气源 Pneumatic	2	3	2	3	2	3	2	3	1	2
38	水/污水 Water / Waste	2	3	1	2	—	—	—	—	1	2
41	水配重 Water Ballast	1	2	1	2	—	—	—	—	1	2
42	集成电子模块 Integrated Modular Avionic	1	2	1	2	1	2	1	2	2	3
44	客舱系统 Cabin Systems	1	2	1	2	1	2	1	2	2	3
45	中央维护系统 Central Maintenance System	2	3	1	2	1	2	—	—	2	3
46	信息系统 Information System	1	2	1	2	—	—	—	—	2	3
47	惰性气体系统 Inert Gas System	2	3	—	—	—	—	—	—	1	2
49	辅助动力装置 Auxiliary Power Unit	2	3	—	—	2	3	2	3	1	2
飞机结构 Aircraft Structure											
50	货舱及其辅助设施 Cargo and Accessory Compartments	1	3	1	2	1	2	1	2	1	1
51	标准施工/结构 Std.Pract.& Structures	1	1	1	1	1	1	1	1	1	1
52	门 Doors	2	3	2	3	2	3	2	3	1	2
53	机身 Fuselage	2	3	2	3	2	3	2	3	1	2
54	吊舱/吊架 Nacelles/Pylons	2	3	2	3	—	—	—	—	1	2

ATA 章节 Chapter & Section	内容 Content	等级 Level									
		ME-TA		ME-PA		ME-TH		ME-PH		AV	
		I	II	I	II	I	II	I	II	I	II
55	安定面 Stabilizers	2	3	2	3	—	—	—	—	1	2
56	窗户 Windows	2	3	2	3	2	3	2	2	1	2
57	机翼 Wings	2	3	2	3	—	—	—	—	1	2
<b>螺旋桨/旋翼 Propeller/Rotor</b>											
60	标准施工/螺旋桨&旋翼 Standard Practices-Propeller/Rotor	1	1	1	1	1	1	1	1	1	1
61	螺旋桨 Propellers/Propulsion	2	3	2	3	—	—	—	—	1	2
62	主旋翼 Main Rotor	—	—	—	—	2	3	2	3	1	2
63	主旋翼驱动 Main Rotor Drive	—	—	—	—	2	3	2	3	1	2
64	尾桨 Tail Rotor	—	—	—	—	2	3	2	3	1	2
65	尾桨驱动 Tail Rotor Drive	—	—	—	—	2	3	2	3	1	2
66	折叠桨叶 Folding Blades/Pylon	—	—	—	—	2	3	2	3	1	2
67	直升机飞行操纵 Rotors Flight Control	—	—	—	—	2	3	2	3	1	2
<b>动力装置 Power Plant</b>											
71	动力装置 Power Plant	1	3	1	3	1	3	1	3	1	2
72	发动机 Engine	1	3	1	3	1	3	1	3	1	2
73	发动机燃油和控制 Engine Fuel and Control	2	3	2	3	2	3	2	3	1	2
74	点火 Ignition	2	3	2	3	2	3	2	3	1	2
75	空气 Air	2	3	—	—	2	3	—	—	1	2
76	发动机控制 Engine Controls	2	3	2	3	2	3	2	3	1	2

ATA 章节 Chapter & Section	内容 Content	等级 Level									
		ME-TA		ME-PA		ME-TH		ME-PH		AV	
		I	II	I	II	I	II	I	II	I	II
77	发动机指示 Engine Indicating	2	3	1	2	1	2	1	2	1	2
78	排气 Exhaust	2	3	2	3	1	2	1	2	1	2
79	滑油 Oil	2	3	2	3	2	3	2	3	1	2
80	起动 Starting	2	3	2	3	2	3	2	3	1	2
81	涡轮增压 Turbines	—	—	2	3	—	—	—	—	1	2



### 5.1.3 The Requirements of Theoretical Test

The easy and difficult levels of test questions shall be divided and shall correspond to the training levels stipulated in 5.1.1. In this test, the selection questions shall be applied and 70% is acceptable for 1 correct answer in 4 different answers while 75% is acceptable for 1 correct answer in 3 different answers. The average test time for each question shall not exceed 90 seconds. 1 question shall be present for each course hour and minimum 1 question shall be present for each chapter. The difficulty level of the test questions shall be the same as the one of section in instruction program.

## 5.2 The Requirements of Practice Training

### 5.2.1 The Purpose of Practice Training

The practice training aims to have the trainees master the corresponding skills and perform the maintenance, checks and daily tasks in accordance with maintenance manuals and the other relevant guidance files as well as job sheet and card.

As for the content of trouble-shoot and function checks, the practice training shall also enable the trainees to master the operation method of technique files and manuals specific to the aircraft and the operation method of dedicated/special tools and test equipment.

### 5.2.2 The Requirements of Practice Training

The practice training shall be implemented by CCAR-147 training organization. The aircraft, power plant, part and the other training equipment and facility shall be applied in practice training. The training organization may apply the simulator or the simulation software to perform the trainings in the aspects of function/operation test and trouble-shooting. However, for certain training items that are required to be implemented in a real aircraft maintenance environment must not be replaced with simulator or the other equipment.

The practice training may be implemented after theoretical training or integrated into theoretical training, but must not be implemented before theoretical training. Under the guidance of practice training instructor, the practice training shall be exercised in accordance with the practice items list. The practice items list shall satisfy the requirement of the training program, and shall be established by maintenance training organization in accordance with the specific aircraft type and professional technique.

At the end of practice training, the trainee must be evaluated by the guidance instructor.

### 5.2.3 The Content of Practice Training

The practice training shall cover those representative maintenance contents of the associated aircraft types, and shall cover the fuselage, avionics and power plant.

As far as the complexity and technique requirement, the implemented training items must be the representative contents in the aircraft and system. Although those items that are relatively simple can be included, the relevant and complex maintenance tasks in the maintenance tasks of the corresponding aircraft type must be included and implemented.

The practice training items shall be divided into following job types:

LOC: Location of Component

FOT: Function Operation Test

SGH: Service Ground Handling

R/I: Removal/ Installation

MEL: MEL items

TS: Trouble shooting

The content of practice training shall satisfy the requirements in the following tables:

ATA 章节 Chapter & Section	内容 Content	工作类型 Job Type										
		ME-TA		ME-PA		ME-TH		ME-PH		AV		
		I	II	I	II	I	II	I	II	I	II	
<b>飞机介绍 Aircraft General</b>												
05	时限/维护检查 Time Limits / Maintenance Checks	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	
06	尺寸及区域划分 Dimensions and Areas	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	
07	顶起和支撑 Lifting and Shoring	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	
08	校水平和称重 Leveling / Weighing	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	
09	牵引和滑行 Towing / Taxing	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	
10	停放和系留 Parking / Mooring	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	
12	勤务 Servicing	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	
18	振动和噪声分析 Vibration and Noise Analysis	—	—	—	—	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC	LOC	
20	标准施工 Standard Practice	—	—	—	—	—	—	—	—	—	—	
<b>飞机系统 Aircraft Systems</b>												
21	空调 Air Conditioning	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC SGH	LOC FOT SGH TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC SGH	LOC FOT SGH TS R/I	LOC SGH	LOC FOT SGH MEL	
22	自动飞行 Auto Flight	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I

ATA 章节 Chapter & Section	内容 Content	工作类型 Job Type											
		ME-TA		ME-PA		ME-TH		ME-PH		AV			
		I	II	I	II	I	II	I	II	I	II		
23	通讯 Communications	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC	LOC	LOC	LOC	LOC	LOC	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I
24	电源 Electrical Power	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	
25	设备/装饰 Equipment / Furnishings	LOC SGH MEL	LOC SGH R/I MEL	LOC SGH	LOC SGH R/I	LOC SGH	LOC SGH R/I MEL	LOC SGH	LOC SGH R/I MEL	LOC SGH R/I MEL	LOC SGH	LOC SGH	LOC SGH
26	防火 Fire Protection	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH	LOC FOT SGH MEL	LOC FOT SGH MEL	
27	飞行操纵 Flight Controls	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL	LOC FOT SGH MEL	LOC FOT SGH MEL	
28	燃油 Fuel	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH	LOC FOT SGH MEL	LOC FOT SGH MEL	
29	液压 Hydraulic Power	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH	LOC FOT SGH MEL	LOC FOT SGH MEL	

ATA 章节 Chapter & Section	内容 Content	工作类型 Job Type									
		ME-TA		ME-PA		ME-TH		ME-PH		AV	
		I	II	I	II	I	II	I	II	I	II
30	防冰和排雨 Ice and Rain Protection	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH	LOC FOT SGH TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH	LOC FOT SGH MEL
31	指示/记录系统 Indicating/ Recording System	LOC SGH	LOC FOT SGH MEL TS R/I	LOC SGH MEL	LOC FOT SGH MEL R/I	LOC SGH	LOC SGH MEL	LOC SGH	LOC SGH MEL	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I
32	起落架 Landing Gear	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH	LOC FOT SGH MEL
33	灯光 Lights	LOC FOT R/I MEL	LOC FOT R/I MEL	LOC MEL	LOC FOT R/I MEL	LOC FOT R/I MEL	LOC FOT R/I MEL	LOC FOT R/I MEL	LOC FOT R/I MEL	LOC FOT R/I MEL	LOC FOT R/I MEL
34	导航 Navigation	LOC	LOC FOT	LOC	LOC FOT	LOC	LOC	LOC	LOC	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I
35	氧气 Oxygen	LOC FOT SGH MEL R/I	LOC FOT SGH MEL R/I	LOC SGH	LOC FOT SGH R/I	LOC SGH	LOC FOT SGH R/I	LOC SGH	LOC FOT SGH R/I	LOC FOT	LOC MEL FOT
36	气源 Pneumatic	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC SGH FOT	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC SGH FOT	LOC FOT SGH MEL

ATA 章节 Chapter & Section	内容 Content	工作类型 Job Type									
		ME-TA		ME-PA		ME-TH		ME-PH		AV	
		I	II	I	II	I	II	I	II	I	II
38	水/污水 Water / Waste	LOC SGH FOT	LOC SGH FOT	LOC SGH	LOC SGH	—	—	—	—	LOC SGH	LOC SGH
41	水配重 Water ballast	LOC	LOC	LOC	LOC	—	—	—	—	LOC	LOC
42	集成电子模块 Integrated Modular Avionic	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I
44	客舱系统 Cabin Systems	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I
45	中央维护系统 Central Maintenance System	LOC FOT	LOC FOT	LOC FOT	LOC FOT	LOC FOT	LOC FOT	—	—	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I
46	信息系统 Information System	LOC	LOC	LOC	LOC	—	—	—	—	LOC FOT	LOC FOT
47	惰性气体系统 Inert Gas System	LOC MEL	LOC FOT MEL TS R/I	—	—	—	—	—	—	LOC MEL	LOC MEL
49	机载辅助动力 Auxiliary Power Unit	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	—	—	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	—	—	LOC FOT SGH	LOC FOT SGH MEL

ATA 章节 Chapter & Section	内容 Content	工作类型 Job Type									
		ME-TA		ME-PA		ME-TH		ME-PH		AV	
		I	II	I	II	I	II	I	II	I	II
<b>飞机结构 Aircraft Structure</b>											
50	货舱及其辅助 设施 Cargo and Accessory Compartments	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC	LOC FOT SGH TS	LOC	LOC FOT SGH TS	LOC	LOC
51	标准施工/结构 Std.Pract.& Structures	—	—	—	—	—	—	—	—	—	—
52	门 Doors	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH
53	机身 Fuselage	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC	LOC
54	吊舱/吊架 Nacelles/Pylons	LOC	LOC	LOC	LOC	—	—	—	—	LOC	LOC
55	安定面 Stabilizers	LOC	LOC	LOC	LOC	—	—	—	—	LOC	LOC
56	窗户 Windows	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH
57	机翼 Wings	LOC	LOC	LOC	LOC	—	—	—	—	LOC	LOC
<b>螺旋桨/旋翼 Propeller/Rotor</b>											
60	标准施工-螺旋 桨/旋翼 Standard Practices- Propeller/Rotor	—	—	—	—	—	—	—	—	—	—
61	螺旋桨 Propellers/ Propulsion	LOC SGH	LOC SGH R/I MEL	LOC SGH	LOC SGH R/I MEL	—	—	—	—	LOC SGH	LOC SGH MEL
62	主旋翼 Main Rotor	—	—	—	—	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC SGH MEL	LOC SGH FOT MEL

ATA 章节 Chapter & Section	内容 Content	工作类型 Job Type									
		ME-TA		ME-PA		ME-TH		ME-PH		AV	
		I	II	I	II	I	II	I	II	I	II
63	主旋翼驱动 Main Rotor Drive	—	—	—	—	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC SGH MEL	LOC SGH FOT MEL
64	尾浆 Tail Rotor	—	—	—	—	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC SGH MEL	LOC SGH FOT MEL
65	尾浆驱动 Tail Rotor Drive	—	—	—	—	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC SGH MEL	LOC SGH FOT MEL
66	折叠桨叶 Folding Blades/Pylon	—	—	—	—	LOC	LOC SGH	LOC	LOC SGH	LOC	LOC
67	直升机飞行操纵 Rotors Flight Control	—	—	—	—	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC FOT SGH MEL TS R/I	LOC SGH MEL	LOC SGH FOT MEL
动力装置 Power Plant											
71	动力装置 Power Plant	LOC SGH	LOC SGH	LOC SGH R/I	LOC SGH R/I TS	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH	LOC SGH
72	发动机 Engine	LOC	LOC	LOC	LOC R/I FOT TS	LOC	LOC	LOC	LOC	LOC	LOC
73	发动机燃油 和控制 Engine Fuel and Control	LOC FOT TS SGH	LOC FOT R/I TS SGH	LOC SGH R/I FOT	LOC FOT R/I TS SGH	LOC FOT TS SGH	LOC FOT R/I TS SGH	LOC SGH R/I FOT	LOC FOT R/I TS SGH	LOC FOT	LOC FOT



ATA 章节 Chapter & Section	内容 Content	工作类型 Job Type									
		ME-TA		ME-PA		ME-TH		ME-PH		AV	
		I	II	I	II	I	II	I	II	I	II
74	点火 Ignition	LOC	LOC R/I	LOC R/I	LOC R/I FOT TS	LOC	LOC R/I	LOC R/I	LOC R/I FOT TS	LOC	LOC
75	空气 Air	LOC TS	LOC R/I TS	—	—	LOC TS	LOC R/I TS	—	—	LOC	LOC
76	发动机控制 Engine Controls	LOC	LOC TS	LOC SGH	LOC SGH R/I FOT TS	LOC	LOC TS FOT	LOC	LOC TS FOT	LOC	LOC
77	发动机指示 Engine Indicating	LOC MEL TS	LOC MEL TS R/I	LOC	LOC R/I TS	LOC	LOC	LOC	LOC	LOC MEL TS	LOC MEL TS
78	排气 Exhaust	LOC FOT MEL TS	LOC FOT MEL TS	LOC SGH R/I	LOC SGH R/I TS	LOC	LOC SGH	LOC	LOC SGH	LOC MEL	LOC MEL
79	滑油 Oil	LOC SGH TS	LOC SGH TS	LOC SGH R/I	LOC SGH R/I TS	LOC SGH TS	LOC SGH TS	LOC SGH TS	LOC SGH TS	LOC SGH	LOC SGH
80	起动机 Starting	LOC SGH	LOC SGH TS	LOC SGH	LOC SGH R/I TS	LOC SGH	LOC SGH TS	LOC SGH	LOC SGH TS	LOC SGH	LOC SGH
81	涡轮增压 Turbines	—	—	LOC	LOC R/I	—	—	LOC R/I	LOC R/I	LOC	LOC

### 5.3 The Requirements of Training Hours

The training hours of each aircraft type shall be defined in accordance with the specific aircraft type and training levels, but shall minimally satisfy those requirements arisen from the above-mentioned trainings.

#### 5.3.1 The Requirements of Theoretical Training Hours

The theoretical training hours shall satisfy the following minimum training hours requirements:

Theoretical Training Hours Requirement (Minimum)			
Type	Technique	Category	Hours
TA	Mechanic (ME)	I	120
	Avionics (AV)	I	120
	Mechanic (ME)	II	160
	Avionics (AV)	II	160
PA	Mechanic (ME)	I	30
	Avionics (AV)	I	30
	Mechanic (ME)	II	60
	Avionics (AV)	II	60
TH	Mechanic (ME)	I	40
	Avionics (AV)	I	40
	Mechanic (ME)	II	80
	Avionics (AV)	II	80
PH	Mechanic (ME)	I	30
	Avionics (AV)	I	30
	Mechanic (ME)	II	60
	Avionics (AV)	II	60

Each course hour stipulated in the above table must not be less than 45 minutes and 8 course hours must not be exceeded on each day, and the test time must be contained in the total course hours.

If adequate evidence can be provided, after special CAAC approval has been obtained, the theoretical training hours can be reduced accordingly.

#### 5.3.2 The Practice Training Hours

The practice training time of aircraft type shall be defined in accordance with the requirement of specific aircraft type and the categories. The minimum training hours is stipulated as following:

The minimum training days of category I must not be lower than 5 working days while that of category II must not be lower than 10 working days.

As for the practice training of the above-mentioned standard, the training organization must provide a technique analysis report to CAAC to certify its rationality, and this report shall be approved by CAAC.

#### 5.4 The Difference Training of Different Engine Options in Same Aircraft Type

The difference training course of different engine options in same aircraft type shall contain the content concerned with the engine and the cross-link between engine and aircraft in the following chapters and sections:

ATA21 (if applicable), 24 (if applicable), 26, 28 (if applicable), 30 (if applicable), 31 (if applicable), 36, 71 ~ 80

The theoretical and practice program shall be exercised with reference to the training programs in 5.1 and 5.2.

The requirements of minimum training hours of theoretical training shall refer to the following table:

Technique	Category	Hours
Mechanic (ME)	I	15
Avionics (AV)	I	15
Mechanic (ME)	II	30
Avionics (AV)	II	15

The practice training hours must not be lower than 1 working day.

## 6. The Requirement of Component Maintenance Items

The component maintenance item training is divided into theoretical training and practice training. The theoretical training can be made with item or sub-item. The practice training shall be made with the specific aircraft components.

### 6.1 Training Objectives

Through the training of this item, the train shall enable to:

- (1) Familiarize and master the composition, function and operation principle of this component;
- (2) Master the relevant testing procedure, and familiarize the associated control and indication;

- (3) Master the implementation method, procedure and cautionary note of the corresponding maintenance task category;
- (4) Be familiar with the application with the specific tool and equipment;
- (5) Be familiar with the application methods with the airworthiness data of this component and the method used to fill in various job sheets and job cards.

## 6.2 The Training Content

The training program of aircraft component Repair Items shall cover the following contents:

- (1) Airworthiness data, including the component maintenance manual and various job sheets and job cards;
- (2) The composition, function and operation principle of such component;
- (3) The maintenance process and equipment operation of such component;
- (4) The minimum training hours of each item, sub-item and knowledge point.

As for the expanded details, refer to appendix 1 “The Training Program of Aircraft Component Maintenance Item”.

Note: Because those training programs contents of STR015 aluminum skin repair, STR016 pressurized cabin repair, LGR013 bearing repair and AVC023 wave guide devices and coaxial cable repair sub-item are relatively specific and professional, each training organization shall define the detailed contents of training program in accordance with the circumstances and shall report to CAAC authority for approval.

## 6.3 Training Hours

Due to significant differences among the aircraft component configurations, the training entity shall define the training hours as dictated by the actual circumstances of each item or sub-item. The training hours shall be adequate to ensure the trainee has completely mastered the contents required in 6.2, and shall not fall below the minimum training hours requirements given in 6.2.

If adequate evidence can be provided, after special CAAC approval has been obtained, the training hours can be reduced accordingly.

Appendix 1:

**The Training Program of Aircraft Component Repair Items**

**Aircraft Structure Repair (STR) STR01 Metal Structure Repair**

Number	The Name of Item and Sub-item		Hours
STR01	Metal Structure Repair		74
STR 011	Aluminum Alloy Structure Repair—Theory		28
Number	Knowledge Point	Training Contents	Hours
1	Aircraft Aluminum Alloy Material	1) Classification and performance of aluminum alloy 2) Thermal treatment with aluminum alloy	4
2	Use Of Aircraft Structure Repair Manual	1) Manual description 2) The procedure to classify and describe the damage, evaluate the damage area as per SRM standard, and define the allowable damage limits; 3) Define the maintenance project.	8
3	Aircraft Aluminum Alloy Structure Repair	1) Specifications of aircraft aluminum alloy structure repair; 2) Design principle of maintenance project 3) The production requirement to repair the patch 4) The connection design to repair the patch 5) Measures used to improve the structure fatigue strength	12
4	Typical Maintenance Example	Take the typical damage repair of Boeing or Airbus aircraft for instance.	4

Number	The Name of Item and Sub-item	Hours
STR01	Metal Structure Repair	66
STR 011	Aluminum Alloy Structure Repair—Practice	28
Number	Training Items	Hours
1	The use of structure repair manual (Boeing and Airbus)	3
2	Perform the SRM operation drills specific to the given damages	2
3	Corrosion damage repair	3
4	Apply the sealant	3
5	Install and remove the fastener	4
6	As per SRM, perform the repairs on such damages as minor holes on the aircraft skin or short crack	4
7	As per SRM, perform the repairs on the typical damages on the skin or truss	9

Number	The Name of Item and Sub-item		Hours
STR01	Metal Structure Repair		74
STR 012	Steel, Titanium Alloy Structure Repair—Theory		14
Number	Knowledge Point	Training Contents	Hours
1	Alloy Steel Structure Repair	<ol style="list-style-type: none"> <li>1) Basic knowledge of alloy steel: classification, thermal treatment, mechanic performance</li> <li>2) The application of alloy steel in the aircraft structure</li> <li>3) The machinery processing of alloy steel: surface grinding, turning, bore machining, post-processing treatment, thermal damage check;</li> <li>4) The repairing process of common damage on alloy steel structure</li> </ol>	7
2	Titanium Alloy Steel Structure Repair	<ol style="list-style-type: none"> <li>1) Basic knowledge of titanium alloy: classification, mechanic performance</li> <li>2) The application of titanium alloy in the aircraft structure</li> <li>3) The machinery processing of titanium alloy: overview and safe protection, turning and bore machining, milling, drilling and reaming, sand-paper polishing, thermal damage check;</li> <li>4) The repairing process of common damage on titanium alloy structure</li> </ol>	3
3	Welding Process	<ol style="list-style-type: none"> <li>1) The concept of welding and its advantages and disadvantages.</li> <li>2) The common welding methods and its application</li> </ol>	2
4	Surface treatment with steel, titanium structure parts	<ol style="list-style-type: none"> <li>1) The surface reinforce process and its application</li> <li>2) The surface plating layer</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
STR01	Metal Structure Repair	66
STR 012	Steel, Titanium Alloy Structure Repair—Practice	10
Number	Training Items	Hours
1	Workshop safe rule and personal safe protection	1
2	Use the associated manuals with steel titanium alloy structure repair (CMM, OHM, SOPM, SRM, etc)	4
3	Identify the common damages of steel titanium alloy structure part	1
4	Repair the steel titanium alloy structure part	3
5	Check the steel titanium alloy structure part	1



Number	The Name of Item and Sub-item		Hours
STR01	Metal Structure Repair		74
STR 013	Fuselage Door and Window Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of fuselage doors and windows	1) Basic principle, composition and function introduction of the fuselage doors and windows (the introduction of operation principle, composition and function of cabin door, cargo compartment door and slide window); 2) Operation principle and composition introduction of air stair of typical aircraft type; 3) Operation principle and composition introduction of trimming assembly of cabin door of typical aircraft type; 4) Common damage and failure on the door and window of fuselage.	6
2	Introduce the associated manual and data	SOPM, OHM, CMM, etc.	3
3	Repair fuselage door and window	Clean, check, repair, install and store the fuselage door and window	6
4	Maintenance record	Fill in the job cards and maintenance records.	1

Number	The Name of Item and Sub-item	Hours
STR01	Metal Structure Repair	66
STR 013	Fuselage Door and Window Repair—Practice	16
Number	Training Items	Hours
1	Workshop safety rule and personal safety protection	1
2	Use of maintenance manual and maintenance file	2
3	Use of tool and measuring tools	1
4	Removal, installation and secure of fastener	1
5	Use of grease, ointment and oil fluid	1
6	Seal and anti-corrosion	1
7	Perform the break-down, clean, test, repair, assembly and function test on the typical fuselage door and window.	9

Number	The Name of Item and Sub-item		Hours
STR01	Metal Structure Repair		74
STR 014	Anti-corrosion Treatment — Theory		16
Number	Knowledge Point	Training Contents	Hours
1	The type and phenomenon of structure corrosion and the brief introduction of principle	<ol style="list-style-type: none"> <li>1) The formation and phenomenon of chemical corrosion</li> <li>2) The principle and occurrence condition of electrical chemical corrosion principle</li> <li>3) The types and phenomenon of overall corrosion and local corrosion</li> <li>4) The conditions in which the stress corrosion and industry medium corrosion have occurred</li> <li>5) The formation and phenomenon of atmosphere corrosion and micro-organism corrosion</li> </ol>	4
2	The aircraft structure corrosion damage and its evaluation	<ol style="list-style-type: none"> <li>1) The common corrosion damage on aircraft structure</li> <li>2) The evaluation on aircraft structure corrosion damage</li> </ol>	1
3	The treatment method, procedure and safety caution notes of structure corrosion	<ol style="list-style-type: none"> <li>1) The corrosion clearing steps and safety caution notes of such structure parts as aluminum alloy parts, steel and alloy steel, magnesium alloy</li> <li>2) The method to clear the residual substances caused by the corrosive products</li> <li>3) The surface treatment method for various structure parts, such as aluminum alloy</li> <li>4) The dedicated tools and equipment to anti-corrosion treatment</li> </ol>	6
4	Various effective airframe anti-corrosion measures	<ol style="list-style-type: none"> <li>1) The anti-corrosion methods used for aluminum clad, oxidation film and coating on the surface of aluminum alloy structure</li> <li>2) The surface anti-corrosion of steel structure parts include the protective layer of electrical-plating metal, metal spray, paint coating</li> <li>3) The area, role, method and cautionary note of anti-corrosion agent</li> <li>4) The seal treatment and anti-corrosion schedule</li> </ol>	2
5	Use of maintenance manual and technique files	<ol style="list-style-type: none"> <li>1) The manual types and brief introduction required for structure maintenance;</li> <li>2) ATA specification 100</li> <li>3) Manual validity</li> <li>4) SRM manual, CMM manual, CPM manual</li> </ol>	3

Number	The Name of Item and Sub-item	Hours
STR01	Metal Structure Repair	66
STR 014	Anti-corrosion Treatment—Practice	12
Number	Training Items	Hours
1	Use of maintenance manuals and technique files (SRM, CMM, CPM)	1
2	Prepare the tools and equipment and personal safety protection	1
3	Identify the corrosion type	1
4	Apply the mechanic method to clear the corrosion	2
5	Apply the manual grinding method to clear the corrosion	2
6	Evaluate the corrosion levels	1
7	Oxidation treatment with aluminum alloy surface	1
8	Painting	1
9	Apply the anti-corrosion agent	1
10	Fill in the job card and maintenance record	1

## STR02 Non-metal Structure and Composite Material Repairs

Number	The Name of Item and Sub-item		Hours
STR02	Non-metal Structure and Composite Material Repair		34
STR 021	Composite material repair —Theory		18
Number	Knowledge Point	Training Contents	Hours
1	Basic elements of composite material	1) Definitions and applications with composite material, reinforced fiber material, resin material 2) Glass fiber, carbon fiber, aramid fiber, quartz fiber and mixed-type fiber 3) Adhesive agent, resin, prepreg, roving, weave-type and honeycomb sandwich material	4
2	Storage and process of composite material	1) The treatment and storage of composite material, shelf life, time limit certificate and control 2) Definition and process with prepreg materials for Boeing and Airbus aircraft	2
3	Composite material parts	1) The production technique and design standard of aviation components made with composite materials 2) Single-piece stacking structure, sandwich stacking structure, fiber stacking direction and attachment 3) Environment and safety	4
4	The associated tools and equipment with composite material repair	1) Workshop equipment and manual tool, e.g., planer, modular, hole saw, heating blanket, thermocouple, vacuum bag, hot bonder, measurement equipment, conversion tool between the metric system and imperial system 2) Equipment operation safety and personal safety protection	2
5	Training with the manual associated composite material	1) General introduction of structure repair manual 2) Introduce the consumption material of composite material, allowable damage of composite material and repair of composite material in structure repair manual 3) Consult the manual specific to the actual examples of composite material .	3
6	Repair typical composite materials	1) Type and evaluation on damages of composite material part 2) Typical repair methods:metal foil repair method, resin seal repair method, wet packing repair method, etc 3) Typical secure method of composite material: solid rivet, blind rivet and tubular rivet, etc.	3

Number	The Name of Item and Sub-item	Hours
STR02	Non-metal Structure and Composite Material Repair	40
STR 021	Composite material repair —Practice	20
Number	Training Items	Hours
1	Use structure repair manual (composite material part)	2
2	Use repair equipment and tool of typical composite material, personal safety protection	4
3	Identify the damage of composite material	1
4	Repair wet stacking layer of laminate structure of composite material	4
5	Repair honeycomb sandwich structure	8
6	Fill in job card and maintenance record	1

Number	The Name of Item and Sub-item		Hours
STR02	Non-metal Structure and Composite Material Repair		34
STR 022	Non-metal Structure repair—Theory		8
Number	Knowledge Point	Training Contents	Hours
1	Non-metallic aircraft structure	Introduce door and window glass	1
2	Specific tool, fixture and test equipment	Use specific tool, fixture and test equipment	1
3	The associated data with non-metallic structure	CMM, OHM, etc	2
4	Repair non-metallic aircraft structure	Clean, check, repair, assemble and store the door and window glass.	3
5	Maintenance record	Fill in job card and maintenance record	1

Number	The Name of Item and Sub-item	Hours
STR02	Non-metal Structure and Composite Material Repair	40
STR 022	Non-metal Structure repair—Practice	8
Number	Training Items	Hours
1	Workshop safe production rules and personal safety protection	1
2	Use maintenance manuals and maintenance files	1
3	Use specific tool and measurement device	1
4	Identify and use the washing agent and polishing paste	1
5	Clean, check, repair, and assemble the typical window glass.	4



Number	The Name of Item and Sub-item		Hours
STR02	Non-metal Structure and Composite Material Repair		34
STR 023	Non-metal Skin Repair—Theory		8
Number	Knowledge Point	Training Contents	Hours
1	Manual Introduction	SRM, AMM	1
2	Non-metal Skin	Type of non-metal skin and its characteristics and application	1
3	Composite Material Skin Repair	1) Forms of common failure 2) Repair material 3) Repair equipment and tool 4) Common repair methods 5) Laminate material skin repair 6) Thermal-forming plastic skin repair	3
4	Cover repair	1) Forms of common failure 2) Repair material 3) Repair tool 4) Repair the broken hole and torn hole on the cover 5) Replace the cover	3

Number	The Name of Item and Sub-item	Hours
STR02	Non-metal Structure and Composite Material Repair	40
STR 023	Non-metal Skin Repair—Practice	12
Number	Training Items	Hours
1	Use maintenance manual and technique file	1
2	Identify the types of non-metallic skin	1
3	Forms of failure of skin made with composite material	1
4	Common tool and equipment for repairing the skin made with composite material	1
5	The safety caution notes of common repair materials and chemical medicine	1
6	Common repair methods and operations on composite material	2
7	The method and operation used to repair the fabric skin	3
8	The repair method and operation of thermal-forming plastic skin	2

### STR03 Painting

Number	The Name of Item and Sub-item		Hours
STR03	Painting		16
STR03	Painting —Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Characteristics and application with painting material	1) The classification and general nature of coating 2) Select the aircraft paint and the coating requirement during aircraft painting	2
2	The structure of painting workshop and basic device and equipment requirement	1) Structure of painting room 2) Brief introduction on requirements of basic device and equipment in painting workshop 3) Painting safety	2
3	Common painting technique	1) Surface treatment before painting 2) Seal action 3) Produce and paint the exterior logo on the aircraft 4) Paint mill technique 5) Apply with the paint	8
4	Typical painting procedure	1) Introduce the painting procedure of aluminum alloy material 2) Introduce the painting procedure of composite material 3) Introduce the painting procedure of non-metallic materials inside the aircraft abin 4) The painting procedure of other materials and different locations	2
5	Quality standard of paint spraying and performance testing method	1) Quality standard of paint spraying 2) The methods to manage and test the paint quality	2

Number	The Name of Item and Sub-item	Hours
STR03	Painting	16
STR03	Painting—Practice	16
Number	Training Items	Hours
1	Use relevant maintenance manuals and technique files	2
2	Preparations and safety protection	2
3	Seal, paint-stripping and clean	4
4	Paint mill and spray	6
5	Test and sign on job card and maintenance record	2

## Aircraft Power plant Repairs(PWT)

### PWT01 Replace Unit Cell

Number	The Name of Item and Sub-item		Hours
PWT01	Replace the unit cell—Theory		7
Number	Knowledge Point	Training Contents	Hours
1	Airworthiness data	The name and its content introduction of airworthiness data for replacing the unit cell of aircraft power plant	1
2	Aircraft power plant unit cell general	<ol style="list-style-type: none"> <li>1) Design concept of aircraft power plant unit cell</li> <li>2) Structure of unit cell of typical aircraft power plant</li> <li>3) Purpose for replacing the unit cell of aircraft power plant</li> </ol>	2
3	Replace aircraft power plant unit cell	<ol style="list-style-type: none"> <li>1) General on the implementation methods used to replace the unit cell of aircraft power plant</li> <li>2) Introduce several typical methods used to remove, check, install and test the unit cell of aircraft power plant and introduce the operation of its specific tools and equipment</li> <li>3) Store the unit cell of aircraft power plant</li> <li>4) The safety caution notes about replacing the aircraft power plant</li> </ol>	4

Number	The Name of Item and Sub-item	Hours
PWT01	Replace Unit Cell—Practice	8
Number	Knowledge Point	Hours
1	Read and understand the relevant maintenance manual and technique files: 1) Understand the operation methods used to replace the unit cell of aircraft power plant 2) Master the safety caution notes of aircraft power plant unit cell	2
2	Minimally master the operation procedures of removal, check, installation and testing of one type of aircraft power plant cell unit, and master the operation methods of its specific tool and device	4
3	Understand the storage, package and transport requirements of aircraft power plant unit cell	1
4	Understand the filling with job card and dispatch requirements.	1

### PWT02 Engine Test Run

Number	The Name of Item and Sub-item		Hours
PWT02	Engine Test Run		14
PWT021	Turbo Engine Test Run on Platform—Theory		7
Number	Knowledge Point	Training Contents	Hours
1	General on the engine test run platform	1) Typical structure of engine test run platform 2) Introduce the hoist method for engine test run 3) Introduce the calibration actions on engine test run on platform 4) The airworthiness data of engine test run on platform	2
2	Engine test run on platform	1) Preparation before engine test run 2) Introduce the procedure of engine test run on platform 3) The specific tool and equipment of engine test run on platform 4) Safety caution notes of engine test run on the platform 5) Emergency operation procedure 6) The associated tasks after engine test run	5

Number	The Name of Item and Sub-item	Hours
PWT02	Engine Test Run	24
PWT021	Turbo Engine Test Run on Platform—Practice	12
Number	Knowledge Point	Hours
1	Understand the associated manuals and technique files with engine test run	1
2	Preparation before engine test run	2
3	Understand the engine test run on platform procedure and safety caution notes	6
4	Understand the operation of dedicated tools and equipment of engine test run on platform	1
5	Relevant tasks after engine test run	2



Number	The Name of Item and Sub-item		Hours
PWT02	Engine Test Run		14
PWT022	Piston Engine Test Run on Platform—Theory		7
Number	Knowledge Point	Training Contents	Hours
1	The general on use of airworthiness data	The types and brief introduction of manuals required for engine test run	1
2	Engine test run on platform	<ol style="list-style-type: none"> <li>1) Introduce the engine test run platform, including the introduction of each control handle, instrument, engine test run software associated with engine test run</li> <li>2) The engine connection procedure</li> <li>3) The preparation and check requirement before engine test run on platform</li> <li>4) Engine test run safety and protection</li> <li>5) Introduce the procedure of typical engine test run on platform</li> <li>6) Emergency operation procedure of engine test run on platform</li> <li>7) The standard to identify the engine performance</li> <li>8) Engine removal procedure</li> <li>9) The channel calibration of engine test platform</li> </ol>	5
3	Engine oil seal and nseal	<ol style="list-style-type: none"> <li>1) Engine oil seal</li> <li>2) Engine oil unseal</li> </ol>	1

Number	The Name of Item and Sub-item	Hours
PWT02	Engine Test Run	24
PWT022	Piston Engine Test Run on Platform—Practice	12
Number	Knowledge Point	Hours
1	Understand the associated manuals of engine test run	0.5
2	Understand each control handle, instrument and test software of engine test run on platform	1
3	Connection of engine test run on platform	1.5
4	Preparation and check before engine test run on platform	1.5
5	Understand the safety and protection of engine test run on platform	0.5
6	Engine test run on platform	2.5
7	Understand the emergency operation procedure of engine test run on platform	0.5
8	Engine performance identification	0.5
9	Engine removal	2
10	Understand the oil seal and unseal of engine	1
11	Fill in job card and record	0.5

### PWT03 Piston Engine Repair

Number	The Name of Item and Sub-item		Hours
PWT03	Piston Engine Repair		21
PWT031\ 032\033	Cylinder Repair\Piston Repair\Shaft and Linkage Repair—Theory		21
Number	Knowledge Point	Training Contents	Hours
1	Use of maintenance manual and technique file	1) Part catalogue 2) Overhaul manual 3) Service bulletin, description and airworthiness directive 4) Relevant process files	2
2	Overview of piston engine	1) Simple classification of piston engine 2) Typical structure of piston engine 3) Cylinder and piston assembly 4) Shaft and linkage assembly	3
3	Repair the piston engine	1) Use of specific repair tools and measurement devices 2) Engine break-down 3) Engine cleaning 4) The check after engine break-down 5) The repair and replacement with engine parts 6) The surface treatment of engine parts 7) The assembly of engine 8) The storage, package and dispatch of engine 9) The safety caution notes.	16

Number	The Name of Item and Sub-item	Hours
PWT03	Piston Engine Repair	20
PWT031\ 032\033	Cylinder Repair\Piston Repair\ Shaft and Linkage Repair—Practice	20
Number	Knowledge Point	Hours
1	Understand overhaul manual, service bulletin, service description, airworthiness directives, operation manual, part category, overhaul process and job sheet.	1
2	Understand the positions of piston engine structure and its parts and components	0.5
3	Understand the safety caution note and protection measure.	0.5
4	Engine facility check	0.5
5	Understand the specific repair tool, measurement tool and repair device	0.5
6	Break down the engine	2
7	Understand the requirements of engine paint stripping and cleaning	0.5
8	Visually check the engine parts	1
9	Make a dimension check on cylinder, piston, shaft and linkage	2
10	Understand the process of non-damage defect test and surface treatment	0.5
11	Understand the engine part replacement and treatment	0.5
12	Repair the cylinder and piston assembly	2
13	Repair the linkage	2
14	Repair the shaft	2
15	Understand the engine assembly	2.5
16	Store and pack the engine	1
17	Fill in job card and record	1

### PWT04 Turbine Engine Repair

Number	The Name of Item and Sub-item		Hours
PWT04	Turbine Engine Repair		24
PWT041/ 042/043/ 044/045	Engine Entity Repair, Compressor and Turbo Repair, Thermal Part Repair, Bearing and Seal Repair, Accessory Gear Box Repair		
Number	Knowledge Point	Training Contents	Hours
1	Airworthiness data	Engine manual, engine cleaning check and repair manual, illustrated engine parts category list, service bulletin, airworthiness directive, engineering order, etc.	1
2	Overview of engine repair	1) Overview of engine principle 2) Typical engine structure 3) Purpose of engine repair 4) Introduce the content of turbine engine repair 5) Introduce the engine repair process 6) Introduce the special repair process of turbine engine	2
3	Repair fan and compressor part	1) Brief introduction on operation of fan and compressor 2) Basic structure of fan and compressor 3) Common failures and repair method of main parts: Fan blade Compressor blade Compressor stator Fan outlet guide blade Fan hub Compressor disc Compressor shaft Coupler Fan case (front/rear case) Air inlet cone Cowling ring Annular filler Bearing seal Air seal Inter-mediate case	6

		4) The assembly of fan and compressor	
4	Repair diffuser case and combustion chamber	1) The structure of diffuser case and combustion chamber 2) The operation environment of diffuser case and combustion chamber; 3) The common failure and repair method of main parts: Diffuser case Combustion chamber Fuel nozzle Electrical igniter 4) The assembly with diffuser case and combustion chamber	3
5	Repair gaseous turbine	1) Brief introduction on turbine operation 2) Characteristics of turbine structure 3) Common failures and repair method of main parts: Turbine disc Turbine shaft Turbine rotor blade Turbine inlet guide blade Turbine guide blade Air seal of turbine Turbine bearing cavity 4) Assembly with gaseous turbine	4
6	Turbine exhaust system	1) Structure of turbine exhaust system 2) Common failures and repair method of main parts: Turbine exhaust case Tail spout Tail cone 3) Assembly with exhaust case	1

7	Accessory drive gear box	<p>1) The operation principle of accessory drive gear box;</p> <p>2) The characteristics of structure of accessory drive gear box;</p> <p>3) Common failures and repair method of main parts:  Accessory gear box case  Accessory gear box shaft  Accessory gear box shaft seal</p> <p>4) Tthe assembly with gear box</p>	2
8	Introduce the repair with exterior engine parts	<p>The common failures and repair method of main parts:</p> <p>Pipe  Guide line  Oil tank  Thermocouple  Engine hoist point  Stop mechanism  Turbine cooling system  Fire warning line  Valve assembly  Variable stator blade control system  Others</p>	2
9	Final assembly of engine	<p>1) Installation of engine entity</p> <p>2) Installation of exterior engine parts</p>	2
10	Technique requirements on engine repair workshop	<p>1) Configuration of engine repair workshop</p> <p>2) Technique requirements on engine repair workshop:  Management requirements on tools and equipment  Retention requirements on operation file records  Retention requirements on part storage  Requirements on storage and application with chemical substances  Safety fire protection requirement  Requirements on personal qualification  Requirements on facility technique  The management requirement on airworthiness manuals and files</p>	1

Number	The Name of Item and Sub-item	Hours
PWT04	Turbine engine repair-Practice	56
PWT041/ 042/043/044 /045	Engine entity repair, compressor and turbine repair, hot section repair, bearing and seal repair, accessory gear box repair	
Number	Knowledge Point	Hours
1	Understand the relevant airworthiness data of turbine engine repair	1
2	Understand the repair of fan and compressor parts (either of them) Blade Fan hub Compressor disc Compressor shaft Case Bearing, air seal Understand the assembly process of fan and compressor.	8
3	Understand the repair of diffuser case and combustion chamber Diffuser case Combustion chamber Understand the assembly process of diffuser case and combustion chamber	8
4	Understand the repair of gaseous turbine Turbine disc Turbine shaft Blade Turbine air seal Turbine shaft cavity Understand the assembly process of gaseous turbine	8
5	Understand the repair of turbine exhaust system Turbine exhaust case Tail spout Tail cone Understand the assembly process of turbine exhaust case	8
6	Understand the repair of accessory drive gear box Accessory gear box case Accessory drive gear shaft Accessory drive gear shaft seal Understand the assembly process of accessory drive gear box	8



7	Understand the repair of exterior engine parts Pipe Electrical guide wires Oil tank Hoist point of engine Stop mechanism Turbine cooling system	8
8	Understand the final assembly process of one engine type	6
9	Understand the signature of job sheet and dispatch requirement	1

### PWT05 Propeller/Rotor repair

Number	The Name of Item and Sub-item		Hours
PWT05	Propeller/ Rotor Repair—Theory		22
Number	Knowledge Point	Training Contents	Hours
1	Use maintenance manuals and technical files	1) Part and component category 2) Overhaul manual 3) Service bulletin, letter, description, airworthiness directive 4) Associated process files	2
2	Propeller general	1) The simple classification of propeller 2) The operation principle of propeller 3) The typical structure of propeller	4
3	Repair propeller	1) Use the specific repair device, tool and measurement device 2) Propeller break-down 3) Propeller cleaning 4) Propeller paint stripping 5) Repair and measure the part and component of propeller 6) Replacement and treatment during the propeller repair 7) NDT on propeller 8) Surface treatment on propeller part 9) Propeller assembly 10) Operation safety and cautionary notes.	12
4	Propeller test	1) Platform test of propeller 2) Static balance of propeller 3) Dynamic balance of propeller	2
6	Difference	1) Fixed pitch and variable pitch 2) Propeller and rotor	2

Number	The Name of Item and Sub-item	Hours
PWT05	Propeller/Rotor Repair-Practice	24
Number	Knowledge Point	Hours
1	Understand the relevant maintenance manuals and technical files	1
2	Understand the application with various specific equipment, tool and measurement device.	2
3	Understand the safety caution notes and protective measures	1
4	Check before propeller break-down	1
5	Understand the locations of propeller structure and its parts and components	1
6	Propeller break-down	2
7	Propeller cleaning	1
8	Understand the process of paint stripping	1
9	Repair and measure the propeller parts and components	3
10	Understand the surface treatment process	1
11	Understand the non-damage test (NDT) process	1
12	Replace and treat the propeller	1
13	Propeller assembly	3
14	Propeller test	2
15	Store and package the propeller	1
16	Difference	1
17	Fill with job card and record	1

### PWT06 Auxiliary Power Unit (APU) Repair

Number	The Name of Item and Sub-item		Hours
PWT06	Auxiliary Power Unit (APU) Repair—Theory		24
Number	Knowledge Point	Training Contents	Hours
1	Airworthiness data	The associated technical data and process file with APU repair.	1
2	Overview of APU	1) The function and typical architecture of APU 2) The basic operation principle of each system of APU 3) The main difference of internal structure of each type of APU device 4) The common failures of APU	7
3	APU repair	1) APU break-down, cleaning and check 2) APU part repair 3) The balance and integral assembly of APU rotation part 4) APU test and the operation with test platform 5) APU storage and delivery 6) The safety caution notes during repair	16

Number	The Name of Item and Sub-item	Hours
PWT06	Auxiliary Power Unit (APU) Repair—Practice	48
Number	Knowledge Point	Hours
1	Understand the use of repair manuals and maintenance files	1
2	Understand the location of APU structure and its peripheral accessory	1
3	Understand APU facility check action	1
4	Understand the operation methods and cautionary notes of specific tool and equipment	1
5	Break down APU	8
6	Clean, check, and repair the parts	8
7	Understand the balance of rotary parts	1
8	APU assembly	16
9	APU test run	8
10	APU delivery check, store and package	2
11	Maintenance record filling and delivery	1

## Aircraft Landing Gear Repair (LGR)

### LGR01 L/G Repair

Number	The Name of Item and Sub-item		Hours
LGR01	Landing Gear Repair		72
LGR011	Shock Absorber Repair—Theory		24
Number	Knowledge Point	Training Contents	Hours
1	Overview of landing gear shock absorber	1) Introduce landing gear 2) Structure of typical shock absorber of landing gear 3) Oleo-pneumatic shock absorber	2
2	Repair the shock absorber of landing gear	1) Introduce the repair process 2) Landing gear break-down, clean and check 3) Repair the part and component of shock absorber of landing gear 4) Assembly and function test of part and component of landing gear shock absorber 5) Storage and package of landing gear shock absorber	8
3	Shock absorber repair process and operation safety and protection	1) Surface reinforce and treatment, operation safety and protection 2) NDT, operation safety and protection 3) Machinery process, operation safety and protection	8
4	Use maintenance manuals and technical files	1) Manual introduction required for accessory maintenance 2) ATA100 specification 3) Manual validity 4) Aviation supplies part number system	6

Number	The Name of Item and Sub-item	Hours
LGR01	Landing Gear Repair	72
LGR011	Shock Absorber Repair—Practice	28
Hours	Training Items	Hours
1	Use the relevant maintenance manual and technical file 1) Various maintenance manual and relevant technical file (CMM, OHM, SOPM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify the location of landing gear structure and its part and component 3) Shock absorber check before it is delivered to facility 4) Use the specific tool and equipment 5) Repair process	2
3	Shock absorber repair 1) Break-down of landing gear shock absorber and part 2) Clean and strip the paint on the part and component of landing gear shock absorber 3) Check the part and component of landing gear shock absorber 4) Repair the part and component of landing gear shock absorber 5) Assembly the part and component of landing gear shock absorber 6) Test the relevant performance of landing gear shock absorber 7) The storage and package of shock absorber	16
4	Repair process and operation safety and protection 1) Electrical plating process and safety measures 2) Shot peen process and safety measures 3) Non-damage test (NDT) process and safety measures 4) Paint stripping and spraying process and safety measures 5) Machinery process and safety measures	8

Number	The Name of Item and Sub-item		Hours
LGR01	Landing Gear Repair		72
LGR012	Steering Mechanism Repair—Theory		24
Number	Knowledge Point	Training Contents	Hours
1	Overview of typical landing gear steering system	<ol style="list-style-type: none"> <li>1) Brief introduction of landing gear steering system</li> <li>2) Composition of typical landing gear steering mechanism part</li> </ol>	2
2	Repair landing gear steering mechanism	Repair process introduction <ol style="list-style-type: none"> <li>1) Break-down, clean and check on landing gear steering mechanism</li> <li>2) Repair the part and component of landing gear steering mechanism</li> <li>3) The assembly and function test of part and component of landing gear steering mechanism</li> </ol>	8
3	landing gear steering mechanism repair process and operation safety and protection	<ol style="list-style-type: none"> <li>1) Surface reinforce and treatment, operation safety and protection</li> <li>2) NDT, operation safety and protection</li> <li>3) Machinery process, operation safety and protection</li> </ol>	8
4	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) Manual introduction required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) Manual validity</li> <li>4) Aviation supplies part number system</li> </ol>	6



Number	The Name of Item and Sub-item	Hours
LGR01	Landing Gear Repair	72
LGR012	Steering Mechanism Repair—Practice	24
Number	Training Items	Hours
1	Use of relevant maintenance manuals and technical files 1) Various maintenance manuals and relevant technical files (CMM, OHM, SOPM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Identify the landing gear steering structure and the location of its part and component 2) Steering mechanism check before it is sent into factory 3) Use of specific tool and equipment 4) Repair process	4
3	Steering mechanism repair 1) Break down landing gear steering mechanism and part; 2) Landing gear steering mechanism part and component after they have been cleaned, stripped from paint and break down. 3) Check landing gear steering mechanism part and component after break-down. 4) Repair part and component of landing gear steering mechanism 5) Assemble landing gear steering mechanism part and component and landing gear service 6) Test the associated performance with landing gear steering mechanism 7) Store and package the steering mechanism	10
4	Repair process and operation safety and protection 1) The method of electrical plating process and safety measures 2) The method of shot peen process and safety measures 3) The method of non-damage test(NDT)process and safety measures 4) The method used to strip and spray the paint and safety measures 5) Machinery process method and safety measures	8

Number	The Name of Item and Sub-item		Hours
LGR01	landing gear repair		72
LGR014	landing gear retraction and extension device repair—Theory		24
Number	Knowledge Point	Training Contents	Hours
1	Overview of typical landing gear retraction and extension system	<ol style="list-style-type: none"> <li>1) Introduce the retraction and extension system of landing gear</li> <li>2) The composition of parts of typical landing gear retraction and extension system</li> </ol>	2
2	Repair the retraction and extension system of landing gear	<p>Introduce repair process</p> <ol style="list-style-type: none"> <li>1) Break down, clean and check of landing gear retraction and extension device</li> <li>2) Repair the part and component of landing gear retraction and extension system</li> <li>3) Assembly and function test of landing gear retraction and extension device</li> </ol>	8
3	landing gear retraction and extension device repair process and operation safety and protection	<ol style="list-style-type: none"> <li>1) Surface reinforce and treatment, operation safety and protection</li> <li>2) NDT, operation safety and protection</li> <li>3) Machinery process, operation safety and protection</li> </ol>	8
4	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) Manual introduction required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) Manual validity</li> <li>4) Aviation supplies part number system</li> </ol>	6

Number	The Name of Item and Sub-item	Hours
LGR01	Landing Gear Repair	72
LGR014	Landing Gear Retraction and Extension Device Repair—Practice	20
Number	Training Items	Hours
1	Use the associated maintenance manuals and technical files 1) Various maintenance manuals and relevant technical files 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify landing gear steering mechanism and the locations of its part and component 3) Check the retraction and extension device before it is sent to the factory 4) Use of specific tool and equipment 5) Repair process	3
3	Retraction and extension device repair 1) Break down the landing gear retraction and extension device and part 2) Clean and strip the paint of the landing gear retraction and extension device and part that has been broken down 3) Check the landing gear retraction and extension device and part that has been broken down 4) Repair the landing gear retraction and extension device and part 5) Assemble landing gear retraction and extension device and part and landing gear service 6) Test the associated performance with landing gear retraction and extension device 7) Store and package the retraction and extension device	7
4	Repair process and operation safety and protection 1) The method of electrical plating process and safety measures 2) The method of shot peen process and safety measures 3) The method of non-damage test (NDT) process and safety measures 4) The method of paint stripping and spraying process and safety measures 5) The method of machinery process and safety measures	8

## LGR02 Wheel Repair

Number	The Name of Item and Sub-item		Hours
LGR02	Wheel Repair		12
LGR021	Wheel Hub Repair—Theory		12
Number	Knowledge Point	Training Contents	Hours
1	Overview of wheel	<ol style="list-style-type: none"> <li>1) Overview of wheel</li> <li>2) Configuration of wheel hub</li> </ol>	1
2	Repair the wheel hub	<ol style="list-style-type: none"> <li>1) Operation safety and protection</li> <li>2) The break-down of wheel hub</li> <li>3) Clean and paint stripping</li> <li>4) Check and repair the part and component</li> <li>5) Assemble and test the wheel hub</li> <li>6) Store and package the wheel hub</li> </ol>	8
3	Use the maintenance manuals and technical files	<ol style="list-style-type: none"> <li>1) The types of manuals required for maintenance actions and the brief introduction</li> <li>2) Manual validity</li> <li>3) Aviation supplies part number system</li> <li>4) CMM manual and SPM manual</li> <li>5) Fill and retain the job cards and maintenance records</li> </ol>	3

Number	The Name of Item and Sub-item	Hours
LGR02	Wheel Repair	16
LGR021	Wheel Hub Repair—Practice	16
Number	Training Items	Hours
1	Workshop safety protection	2
2	Use the associated maintenance manuals and maintenance files	
3	Use the specific tools and measurement tools	
4	Remove, install and secure the fastener	14
5	Use the grease, oil paste and oil fluid	
6	Seal and anti-corrosion	
7	Repair the typical wheel hub assembly	

### LGR03 Brake Unit Replacement and Repair

Number	The Name of Item and Sub-item		Hours
LGR03	Brake Unit Replacement and Repair		32
LGR031	Steel Brake Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	The basic principle and composition of steel brake unit and introduction of its function	<ol style="list-style-type: none"> <li>1) Operation principle and composition of steel brake unit</li> <li>2) Main parameters of steel brake unit</li> <li>3) Maintenance intervals and its operation content of steel brake unit</li> </ol>	2
2	The test and failure isolation of steel brake unit	<ol style="list-style-type: none"> <li>1) Introduce the application with tooling fixture, equipment and material in use of testing</li> <li>2) Test of steel brake unit</li> <li>3) Adjust the length of indication bar of steel brake unit</li> <li>4) Isolate the failure of steel brake unit</li> </ol>	1
3	Break-down of typical steel brake unit	<ol style="list-style-type: none"> <li>1) Introduce the application with tooling fixture, equipment and material in use of break-down</li> <li>2) Break-down of typical steel brake unit</li> </ol>	2
4	Cleaning of steel brake unit	<ol style="list-style-type: none"> <li>1) Introduce the tool, equipment and cleaning agent used for cleaning</li> <li>2) Personal protection and cautionary notes in course of cleaning</li> <li>3) Cleaning and pain stripping</li> </ol>	1
5	Check steel brake unit and its accessory	<ol style="list-style-type: none"> <li>1) Introduce the application with tooling fixture, equipment and material in use of testing</li> <li>2) The requirements used to check steel brake unit</li> <li>3) Check steel brake unit</li> </ol>	2
6	Repair steel brake unit	<ol style="list-style-type: none"> <li>1) Repair tool and material</li> <li>2) Personal protection during repair</li> <li>3) Repair and surface treatment</li> <li>4) The judgment and process for those parts that are in excess of repair range</li> </ol>	2.5
7	Assemble and store steel brake unit	<ol style="list-style-type: none"> <li>1) Assemble material, tool and equipment</li> <li>2) Assemble (moment, tolerance and lubrication)</li> <li>3) Storage</li> </ol>	2.5
8	Introduce the associated manual data with steel brake unit and fill the maintenance records and airworthiness files	<ol style="list-style-type: none"> <li>1) Introduce the technical data and relevant job sheet and card with repair of steel brake unit</li> <li>2) The requirements for filling the maintenance records</li> <li>3) Signature of workshop job card</li> <li>4) ID label</li> </ol>	3

Number	The Name of Item and Sub-item	Hours
LGR03	Brake Unit Replacement and Repair	32
LGR031	Steel Brake Repair—Practice	16
Number	Training Items	Hours
1	Workshop safety protection	2
2	Consult the associated maintenance manual and maintenance file	
3	Use the specific tools and measurement tools	
4	Remove, install and secure the fastener	14
5	Use the grease, oil paste and oil fluid	
6	Seal and anti-corrosion	
7	Repair the typical steel brake unit	

Number	The Name of Item and Sub-item		Hours
LGR03	Brake Unit Replacement and Repair		32
LGR032	Carbon Brake Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	The basic principle and composition of carbon brake unit and introduction of its function	<ol style="list-style-type: none"> <li>1) Operation principle and composition of carbon brake unit</li> <li>2) Main parameters of carbon brake unit</li> <li>3) Maintenance intervals and its operation content of carbon brake unit</li> </ol>	2
2	The test and failure isolation of carbon brake unit	<ol style="list-style-type: none"> <li>1) Introduce the application with tooling fixture, equipment and material in use of testing</li> <li>2) Test of carbon brake unit</li> <li>3) Adjust the length of indication bar of carbon brake unit</li> <li>4) Isolate the failure of carbon brake unit</li> </ol>	1
3	Break-down of typical carbon brake unit	<ol style="list-style-type: none"> <li>1) Introduce the application with tooling fixture, equipment and material in use of break-down</li> <li>2) Break-down of typical carbon brake unit</li> </ol>	2
4	Cleaning of carbon brake unit	<ol style="list-style-type: none"> <li>1) Introduce the tool, equipment and cleaning agent used for cleaning</li> <li>2) Personal protection and cautionary notes in course of cleaning</li> <li>3) <u>Cleaning and pain stripping</u></li> </ol>	1
5	Check carbon brake unit and its accessory	<ol style="list-style-type: none"> <li>1) Introduce the application with tooling fixture, equipment and material in use of testing</li> <li>2) The requirements used to check carbon brake unit</li> <li>3) Check carbon brake unit</li> </ol>	2
6	Repair carbon brake unit	<ol style="list-style-type: none"> <li>1) Repair tool and material</li> <li>2) Personal protection during repair</li> <li>3) Repair and surface treatment</li> <li>4) The judgment and process for those parts that are in excess of repair range</li> </ol>	2.5
7	Assemble and store carbon brake unit	<ol style="list-style-type: none"> <li>1) Assemble material, tool and equipment</li> <li>2) Assemble (moment, tolerance and lubrication)</li> <li>3) Storage</li> </ol>	2.5
8	Introduce the associated manual data with carbon brake unit and fill the maintenance records and airworthiness files	<ol style="list-style-type: none"> <li>1) Introduce the technical data and relevant job sheet and card with repair of carbon brake unit</li> <li>2) The requirements for filling the maintenance records</li> <li>3) Signature of workshop job card</li> <li>4) ID label</li> </ol>	3



Number	The Name of Item and Sub-item	Hours
LGR03	Brake Unit Replacement and Repair	32
LGR032	Carbon Brake Repair—Practice	16
Number	Training Items	Hours
1	Workshop safety protection	2
2	Use the associated maintenance manuals and maintenance files	
3	Use the specific tools and measurement tools	
4	Remove, install and secure the fastener	14
5	Use the grease, oil paste and oil fluid	
6	Seal and anti-corrosion	
7	Repair the typical carbon brake unit	

### LGR04 Tire Retrofit

Number	The Name of Item and Sub-item		Hours
LGR04	Tire Retrofit—Theory		8
Number	Knowledge Point	Training Contents	Hours
1	Basis of aviation tire	1) Overview of aviation tire 2) Composition and classification of aviation tire	1
2	Retrofit the aviation tire	1) Process of aviation tire retrofit process 2) Retrofit the aviation tire 3) Check the retrofitted aviation tire 4) Package and store the aviation tire	5
3	Performance test with retrofitted aviation tire	1) The physical performance test with retrofitted aviation tire 2) The dynamic simulation performance test of retrofitted aviation tire	1
4	Use maintenance manual and technical file	1) Aviation tire retrofit process specification 2) Aviation tire retrofit standard	1

Number	The Name of Item and Sub-item		Hours
LGR04	Tire Retrofit—Practice		8
Number	Training Items		Hours
1	Operation safety and mechanical equipment safety protection		1
2	Retrofit the aviation tire 1) Read and understand the aviation tire retrofit process specification, job sheet and job card 2) Repair the aviation tire 3) Check the finished product of retrofitted aviation tire 4) Fill the job sheet and card and relevant records in course of retrofit 5) Store and package the retrofitted tires.		4
3	The performance test of retrofitted aviation tire		3

## Aircraft Mechanical Accessory Repair (MEC)

### MEC01 Pneumatic Accessory Repair

Number	The Name of Item and Sub-item		Hours
MEC01	Repair pneumatic accessory		94
MEC011	Valve Repair—Theory		8
Number	Knowledge Point	Training Contents	Hours
1	Overview of pneumatic valve	1) Typical structure of pneumatic valve 2) Operation principle of pneumatic valve	0.5
2	Repair of pneumatic valve	1) Break-down, clean and check of pneumatic valve 2) Repair the part of pneumatic valve 3) Assemble and test the pneumatic valve 4) Store and package the pneumatic valve	2
3	Use maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tools 2) Use of specific measurement tools 3) Use of pneumatic testing station	0.5
5	The safety caution notes of repair (common part)	1) Safety protection of personnel, equipment and tool 2) The application with chemical substances and the safety caution notes	1
6	Main difference from other typical pneumatic valves	1) Function difference 2) Repair difference	0

Number	The Name of Item and Sub-item	Hours
MEC01	Pneumatic Accessory Repair	68
MEC011	Valve Repair—Practice	8
Number	Knowledge Point	Hours
1	Use of associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the valve structure and the location of its part and component 3) Check the valve before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Valve Repair 1) Valve break-down 2) Valve cleaning 3) Valve check 4) Repair valve part and component 5) Valve assembly 6) Integrity test of valve 7) Valve storage	5

Number	The Name of Item and Sub-item		Hours
MEC01	Pneumatic Accessory Repair		94
MEC012	Control Valve Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of control valve	<ol style="list-style-type: none"> <li>1) The basic operation principle of and classification of control valve</li> <li>2) The common typical control valve of aircraft system</li> </ol>	2
2	Repair the control valve	<ol style="list-style-type: none"> <li>1) The break-down, cleaning and check with the control valve</li> <li>2) Repair the part of control valve</li> <li>3) Assemble and test the control valve</li> <li>4) Store and package the control valve</li> </ol>	6
3	Maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of pneumatic test platform</li> </ol>	1
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical control valves	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
MEC01	Pneumatic Accessory Repair	68
MEC012	Control Valve Repair—Practice	12
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of control valve and the location of its part and component 3) Check control valve before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	Control valve repair 1) Control valve break-down 2) Control valve cleaning 3) Control valve check 4) Control valve part and component repair 5) Control valve assembly 6) Integrity test of control valve 7) Store the control valve	8

Number	The Name of Item and Sub-item		Hours
MEC01	Pneumatic Accessory Repair		94
MEC013	Turbine Cooler Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Overview of turbine cooler	1) Basic operation principle of turbine cooler and classification 2) Common typical turbine cooler in aircraft system	2
2	Turbine cooler repair	1) Turbine cooler break-down, cleaning and check 2) Turbine cooler part repair 3) Turbine cooler assembly and test 4) Turbine cooler storage and package	8
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing platform	3
5	the safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical turbine coolers	1) Function difference 2) Repair difference	2

Number	The Name of Item and Sub-item	Hours
MEC01	Pneumatic Accessory Repair	68
MEC013	Turbine Cooler Repair—Practice	12
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of turbine cooler and the location of its part and component 3) Check turbine cooler before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	Turbine cooler repair 1) Turbine cooler break-down 2) Turbine cooler cleaning 3) Turbine cooler check 4) Turbine cooler part and component repair 5) Turbine cooler assembly 6) Integrity test of turbine cooler 7) Store the turbine cooler	8



Number	The Name of Item and Sub-item		Hours
MEC01	Pneumatic Accessory Repair		94
MEC014	Pneumatic Starter Repair—Theory		18
Number	Knowledge Point	Training Contents	Hours
1	Overview of pneumatic starter	1) Basic operation principle of pneumatic starter and classification 2) Common typical pneumatic starter in aircraft system	2
2	Pneumatic starter repair	1) Pneumatic starter break-down, cleaning and check 2) Pneumatic starter part repair 3) Pneumatic starter assembly and test 4) Pneumatic starter storage and package	8
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Pneumatic use of testing platform	2
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical pneumatic starter	1) Function difference 2) Repair difference	1

Number	The Name of Item and Sub-item	Hours
MEC01	Pneumatic Accessory Repair	68
MEC014	Pneumatic Starter Repair—Practice	12
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of pneumatic starter and the location of its part and component 3) Check pneumatic starter before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	Pneumatic starter repair 1) Pneumatic starter break-down 2) Pneumatic starter cleaning 3) Pneumatic starter check 4) Pneumatic starter part and component repair 5) Pneumatic starter assembly 6) Integrity test of pneumatic starter 7) Store the pneumatic starter	8

Number	The Name of Item and Sub-item		Hours
MEC01	Pneumatic Accessory Repair		94
MEC015	Pneumatic Drive Unit (e.g. LEFDU) Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Overview of LEFDU	1) Basic operation principle of LEFDU and classification 2) Common typical LEFDU in aircraft system	4
2	LEFDU repair	1) LEFDU break-down, cleaning and check 2) LEFDU part repair 3) LEFDU assembly and test 4) LEFDU storage and package	8
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Pneumatic use of testing platform	3
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical LEFDU	1) Function difference 2) Repair difference	0

Number	The Name of Item and Sub-item	Hours
MEC01	Pneumatic Accessory Repair	68
MEC015	Pneumatic Drive Unit (e.g.:LEFDU) Repair—Practice	16
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of LEFDU and the location of its part and component 3) Check LEFDU before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	LEFDU repair 1) LEFDU break-down 2) LEFDU cleaning 3) LEFDU check 4) LEFDU part and component repair 5) LEFDU assembly 6) Integrity test of LEFDU 7) Store the LEFDU	12

Number	The Name of Item and Sub-item		Hours
MEC01	Pneumatic Accessory Repair		94
MEC016	A/C Heat Exchanger Repair—Theory		12
Number	Knowledge Point	Training Contents	Hours
1	Overview of A/C heat exchanger	<ol style="list-style-type: none"> <li>1) Basic operation principle of A/C heat exchanger and classification</li> <li>2) Common typical A/C heat exchanger in aircraft system</li> </ol>	1
2	A/C heat exchanger repair	<ol style="list-style-type: none"> <li>1) A/C heat exchanger break-down, cleaning and check</li> <li>2) A/C heat exchanger part repair</li> <li>3) A/C heat exchanger assembly and test</li> <li>4) A/C heat exchanger storage and package</li> </ol>	5
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Pneumatic use of testing platform</li> </ol>	1
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical A/C heat exchanger	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	0

Number	The Name of Item and Sub-item	Hours
MEC01	pneumatic accessory repair	68
MEC016	A/C Heat Exchanger Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of A/C heat exchanger and the location of its part and component 3) Check A/C heat exchanger before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	A/C heat exchanger repair 1) A/C heat exchanger break-down 2) A/C heat exchanger cleaning 3) A/C heat exchanger check 4) A/C heat exchanger part and component repair 5) A/C heat exchanger assembly 6) Integrity test of A/C heat exchanger 7) Store the A/C heat exchanger	5

## MEC02 Hydraulic Accessory Repair

Number	The Name of Item and Sub-item		Hours
MEC02	Hydraulic Accessory Repair		76
MEC021	Hydraulic Pump Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of hydraulic pump	<ol style="list-style-type: none"> <li>1) Basic operation principle of hydraulic pump and classification</li> <li>2) Common typical hydraulic pump in aircraft system</li> </ol>	2
2	Hydraulic pump repair	<ol style="list-style-type: none"> <li>1) Hydraulic pump break-down, cleaning and check</li> <li>2) Hydraulic pump part repair</li> <li>3) Hydraulic pump assembly and test</li> <li>4) Hydraulic pump storage and package</li> </ol>	6
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	1
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical hydraulic pump	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
MEC02	Hydraulic Accessory Repair	61
MEC021	Hydraulic Pump Repair—Practice	13
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of hydraulic pump and the location of its part and component 3) Check hydraulic pump before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Hydraulic pump repair 1) Hydraulic pump break-down 2) Hydraulic pump cleaning 3) Hydraulic pump check 4) Hydraulic pump part and component repair 5) Hydraulic pump assembly 6) Integrity test of hydraulic pump 7) Store the hydraulic pump	10



Number	The Name of Item and Sub-item		Hours
MEC02	Hydraulic Accessory Repair		76
MEC022	Hydraulic Valve Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of hydraulic valve	<ol style="list-style-type: none"> <li>1) Basic operation principle of hydraulic valve and classification</li> <li>2) Common typical hydraulic valve in aircraft system</li> </ol>	2
2	Hydraulic valve repair	<ol style="list-style-type: none"> <li>1) Hydraulic valve break-down, cleaning and check</li> <li>2) Hydraulic valve part repair</li> <li>3) Hydraulic valve assembly and test</li> <li>4) Hydraulic valve storage and package</li> </ol>	6
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	1
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical hydraulic valve	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
MEC02	Hydraulic Accessory Repair	61
MEC022	Hydraulic Valve Repair—Practice	12
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of hydraulic valve and the location of its part and component 3) Check hydraulic valve before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Hydraulic valve repair 1) Hydraulic valve break-down 2) Hydraulic valve cleaning 3) Hydraulic valve check 4) Hydraulic valve part and component repair 5) Hydraulic valve assembly 6) Integrity test of hydraulic valve 7) Store the hydraulic valve	9

Number	The Name of Item and Sub-item		Hours
MEC02	Hydraulic Accessory Repair		76
MEC023	Actuator Repair—Theory		16
Number	Knowledge point	Training Contents	Hours
1	Overview of actuator	1) Basic operation principle of actuator and classification 2) Common typical actuator in aircraft system	2
2	Actuator repair	1) Actuator break-down, cleaning and check 2) Actuator part repair 3) Actuator assembly and test 4) Actuator storage and package	6
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing platform	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical actuators	1) Function difference 2) Repair difference	2

Number	The Name of Item and Sub-item	Hours
MEC02	Hydraulic Accessory Repair	61
MEC023	Actuator Repair—Practice	12
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of actuator and the location of its part and component 3) Check actuator before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Actuator repair 1) Actuator break-down 2) Actuator cleaning 3) Actuator check 4) Actuator part and component repair 5) Actuator assembly 6) Integrity test of actuator 7) Store the actuator	9

Number	The Name of Item and Sub-item		Hours
MEC02	Hydraulic Accessory Repair		76
MEC024	Hydraulic Motor and Power Transfer Unit (PTU) Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Overview of hydraulic motor and PTU	<ol style="list-style-type: none"> <li>1) Basic operation principle of hydraulic motor and PTU and classification</li> <li>2) Common typical hydraulic motor and PTU in aircraft system</li> </ol>	2
2	Hydraulic motor and PTU repair	<ol style="list-style-type: none"> <li>1) Hydraulic motor and PTU break-down, cleaning and check</li> <li>2) Hydraulic motor and PTU part repair</li> <li>3) Hydraulic motor and PTU assembly and test</li> <li>4) Hydraulic motor and PTU storage and package</li> </ol>	8
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	2
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical hydraulic motor and PTU	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	3

Number	The Name of Item and Sub-item	Hours
MEC02	Hydraulic Accessory Repair	61
MEC024	Hydraulic Motor and PTU—Practice	16
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of hydraulic motor and ptu and the location of its part and component 3) Check hydraulic motor and ptu before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Hydraulic motor and PTU repair 1) Hydraulic motor and PTU break-down 2) Hydraulic motor and PTU cleaning 3) Hydraulic motor and PTU check 4) Hydraulic motor and PTU part and component repair 5) Hydraulic motor and PTU assembly 6) Integrity test of hydraulic motor and PTU 7) Store the hydraulic motor and PTU	13

Number	The Name of Item and Sub-item		Hours
MEC02	Hydraulic Accessory repair		76
MEC025	Hydraulic Fuse Repair—Theory		8
Number	Knowledge Point	Training Contents	Hours
1	Overview of hydraulic fuse	<ol style="list-style-type: none"> <li>1) Basic operation principle of hydraulic fuse and classification</li> <li>2) Common typical hydraulic fuse in aircraft system</li> </ol>	0.5
2	Hydraulic fuse repair	<ol style="list-style-type: none"> <li>1) Hydraulic fuse break-down, cleaning and check</li> <li>2) Hydraulic fuse part repair</li> <li>3) Hydraulic fuse assembly and test</li> <li>4) Hydraulic fuse storage and package</li> </ol>	2
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	0.5
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical hydraulic fuse	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	0

Number	The Name of Item and Sub-item	Hours
MEC02	Hydraulic Accessory repair	61
MEC025	Hydraulic Fuse Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of hydraulic fuse and the location of its part and component 3) Check hydraulic fuse before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Hydraulic fuse repair 1) Hydraulic fuse break-down 2) Hydraulic fuse cleaning 3) Hydraulic fuse check 4) Hydraulic fuse part and component repair 5) Hydraulic fuse assembly 6) Integrity test of hydraulic fuse 7) Store the hydraulic fuse	5



MEC03 Fuel Accessory Repair

Number	The Name of Item and Sub-item		Hours
MEC03	Fuel Accessory Repair		66
MEC031	Fuel Pump Repair—Theory		16
Number	Knowledge point	Training Contents	Hours
1	Overview of fuel pump	<ol style="list-style-type: none"> <li>1) Basic operation principle of fuel pump and classification</li> <li>2) Common typical fuel pump in aircraft system</li> </ol>	1
2	Fuel pump repair	<ol style="list-style-type: none"> <li>1) Fuel pump break-down, cleaning and check</li> <li>2) Fuel pump part repair</li> <li>3) Fuel pump assembly and test</li> <li>4) Fuel pump storage and package</li> </ol>	7
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	1
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical fuel pumps	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
MEC03	Fuel Accessory Repair	52
MEC031	Fuel Pump Repair—Practice	12
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of fuel pump and the location of its part and component 3) Check fuel pump before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	Fuel pump repair 1) Fuel pump break-down 2) Fuel pump cleaning 3) Fuel pump check 4) Fuel pump part and component repair 5) Fuel pump assembly 6) Integrity test of fuel pump 7) Store the fuel pump	8

Number	The Name of Item and Sub-item		Hours
MEC03	Fuel Accessory Repair		66
MEC032	Fuel Valve Repair—Theory		14
Number	Knowledge Point	Training Contents	Hours
1	Overview of fuel valve	1) Basic operation principle of fuel valve and classification 2) Common typical fuel valve in aircraft system	2
2	Fuel valve repair	1) Fuel valve break-down, cleaning and check 2) Fuel valve part repair 3) Fuel valve assembly and test 4) Fuel valve storage and package	4
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing platform	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical fuel valves	1) Function difference 2) Repair difference	2

Number	The Name of Item and Sub-item	Hours
MEC03	Fuel Accessory Repair	52
MEC032	Fuel Valve Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of fuel valve and the location of its part and component 3) Check fuel valve before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Fuel valve repair 1) Fuel valve break-down 2) Fuel valve cleaning 3) Fuel valve check 4) Fuel valve part and component repair 5) Fuel valve assembly 6) Integrity test of fuel valve 7) Store the fuel valve	5

Number	The Name of Item and Sub-item		Hours
MEC03	Fuel Accessory Repair		66
MEC033	Fuel Regulator Repair—Theory		14
Number	Knowledge Point	Training Contents	Hours
1	Overview of fuel regulator	<ol style="list-style-type: none"> <li>1) Basic operation principle of fuel regulator and classification</li> <li>2) Common typical fuel regulator in aircraft system</li> </ol>	4
2	Fuel regulator repair	<ol style="list-style-type: none"> <li>1) Fuel regulator break-down, cleaning and check</li> <li>2) Fuel regulator part repair</li> <li>3) Fuel regulator assembly and test</li> <li>4) Fuel regulator storage and package</li> </ol>	9
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA 100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	4
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical fuel regulators	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
MEC03	Fuel Accessory Repair	52
MEC033	Fuel Regulator Repair—Practice	24
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of fuel regulator and the location of its part and component 3) Check fuel regulator before its maintenance 4) Use of specific tool and equipment 5) Repair process	6
3	Fuel regulator repair 1) Fuel regulator break-down 2) Fuel regulator cleaning 3) Fuel regulator check 4) Fuel regulator part and component repair 5) Fuel regulator assembly 6) Integrity test of fuel regulator 7) Store the fuel regulator	17

Number	The Name of Item and Sub-item		Hours
MEC03	Fuel Accessory Repair		66
MEC034	Fuel Nozzle Repair—Theory		12
Number	Knowledge Point	Training Contents	Hours
1	Overview of fuel nozzle	1) Basic operation principle of fuel nozzle and classification 2) Common typical fuel nozzle in aircraft system	1
2	Fuel nozzle repair	1) Fuel nozzle break-down, cleaning and check 2) Fuel nozzle part repair 3) Fuel nozzle assembly and test 4) Fuel nozzle storage and package	4
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing platform	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical fuel nozzles	1) Function difference 2) Repair difference	1

Number	The Name of Item and Sub-item	Hours
MEC03	Fuel Accessory Repair	52
MEC034	Fuel Nozzle Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of fuel nozzle and the location of its part and component 3) Check fuel nozzle before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Fuel nozzle repair 1) Fuel nozzle break-down 2) Fuel nozzle cleaning 3) Fuel nozzle check 4) Fuel nozzle part and component repair 5) Fuel nozzle assembly 6) Integrity test of fuel nozzle 7) Store the fuel nozzle	5



MEC04 Hydraulic Accessory Repair

Number	The Name of Item and Sub-item		Hours
MEC04	Hydraulic Accessory Repair		34
MEC041	Oil Pump Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of oil pump	<ol style="list-style-type: none"> <li>1) Basic operation principle of oil pump and classification</li> <li>2) Common typical oil pump in aircraft system</li> </ol>	2
2	Oil pump repair	<ol style="list-style-type: none"> <li>1) Oil pump break-down, cleaning and check</li> <li>2) Oil pump part repair</li> <li>3) Oil pump assembly and test</li> <li>4) Oil pump storage and package</li> </ol>	6
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	2
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical oil pumps	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	1

Number	The Name of Item and Sub-item	Hours
MEC04	Hydraulic Accessory Repair	28
MEC041	Oil Pump Repair—Practice	12
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of oil pump and the location of its part and component 3) Check oil pump before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Oil pump repair 1) Oil pump break-down 2) Oil pump cleaning 3) Oil pump check 4) Oil pump part and component repair 5) Oil pump assembly 6) Integrity test of oil pump 7) Store the oil pump	9

Number	The Name of Item and Sub-item		Hours
MEC04	Hydraulic Accessory repair		34
MEC042	Oil Valve Repair—Theory		10
Number	Knowledge Point	Training Contents	Hours
1	Overview of oil valve	1) Basic operation principle of oil valve and classification 2) Common typical oil valve in aircraft system	1
2	Oil valve repair	1) Oil valve break-down, cleaning and check 2) Oil valve part repair 3) Oil valve assembly and test 4) Oil valve storage and package	3
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing platform	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical oil valves	1) Function difference 2) Repair difference	0

Number	The Name of Item and Sub-item	Hours
MEC04	Hydraulic Accessory repair	28
MEC042	Oil Valve Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of oil valve and the location of its part and component 3) Check oil valve before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Oil valve repair 1) Oil valve break-down 2) Oil valve cleaning 3) Oil valve check 4) Oil valve part and component repair 5) Oil valve assembly 6) Integrity test of oil valve 7) Store the oil valve	5

Number	The Name of Item and Sub-item		Hours
MEC04	Hydraulic Accessory Repair		34
MEC043	Fuel-oil Heat Exchanger Repair—Theory		8
Number	Knowledge Point	Training Contents	Hours
1	Overview of fuel-oil heat exchanger	<ol style="list-style-type: none"> <li>1) Basic operation principle of fuel-oil heat exchanger and classification</li> <li>2) Common typical fuel-oil heat exchanger in aircraft system</li> </ol>	1
2	Fuel-oil heat exchanger repair	<ol style="list-style-type: none"> <li>1) Fuel-oil heat exchanger break-down, cleaning and check</li> <li>2) Fuel-oil heat exchanger part repair</li> <li>3) Fuel-oil heat exchanger assembly and test</li> <li>4) Fuel-oil heat exchanger storage and package</li> </ol>	2
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	0.5
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	0.5
6	Main difference from other typical fuel-oil heat exchangers	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	0

Number	The Name of Item and Sub-item	Hours
MEC04	Hydraulic Accessory Repair	28
MEC043	Fuel-oil Heat Exchanger Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of fuel-oil heat exchanger and the location of its part and component 3) Check fuel-oil heat exchanger before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Fuel-oil heat exchanger repair 1) Fuel-oil heat exchanger break-down 2) Fuel-oil heat exchanger cleaning 3) Fuel-oil heat exchanger check 4) Fuel-oil heat exchanger part and component repair 5) Fuel-oil heat exchanger assembly 6) Integrity test of fuel-oil heat exchanger 7) Store the fuel-oil heat exchanger	5

### MEC05 Pipe Repair

Number	The Name of Item and Sub-item		Hours
MEC05	Pipe Repair		28
MEC051	Metal Pipe Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of metal pipe	1) Basic operation principle of metal pipe and classification 2) Common typical metal pipe in aircraft system	1
2	Metal pipe repair	1) Metal pipe break-down, cleaning and check 2) Metal pipe part repair 3) Metal pipe assembly and test 4) Metal pipe storage and package	8
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing platform	2
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical metal pipe	1) Function difference 2) Repair difference	0

Number	The Name of Item and Sub-item	Hours
MEC05	Pipe Repair	16
MEC051	Metal Pipe Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of metal pipe and the location of its part and component 3) Check metal pipe before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Metal pipe repair 1) Metal pipe break-down 2) Metal pipe cleaning 3) Metal pipe check 4) Metal pipe part and component repair 5) Metal pipe assembly 6) Integrity test of metal pipe 7) Store the metal pipe	5



Number	The Name of Item and Sub-item		Hours
MEC05	Pipe Repair		28
MEC052	Hose Production (Repair)—Theory		12
Number	Knowledge Point	Training Contents	Hours
1	Overview of hose	1) Basic operation principle of hose and classification 2) Common typical hose in aircraft system	1
2	Hose repair	1) Hose break-down, cleaning and check 2) Hose part repair 3) Hose assembly and test 4) Hose storage and package	5
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing platform	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical hose	1) Function difference 2) Repair difference	0

Number	The Name of Item and Sub-item	Hours
MEC05	Pipe Repair	16
MEC052	Hose Production (Repair)—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of hose and the location of its part and component 3) Check hose before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Hose repair 1) Hose break-down 2) Hose cleaning 3) Hose check 4) Hose part and component repair 5) Hose assembly 6) Integrity test of hose 7) Store the hose	5

### MEC06 Bottle Repair

Number	The Name of Item and Sub-item		Hours
MEC06	Bottle Repair		48
MEC061	Oxygen Bottle Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of oxygen bottle	<ol style="list-style-type: none"> <li>1) Basic operation principle of oxygen bottle and classification</li> <li>2) Common typical oxygen bottle in aircraft system</li> </ol>	2
2	Oxygen bottle repair	<ol style="list-style-type: none"> <li>1) Oxygen bottle break-down, cleaning and check</li> <li>2) Oxygen bottle part repair</li> <li>3) Oxygen bottle assembly and test</li> <li>4) Oxygen bottle storage and package</li> </ol>	8
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) Types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	1
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical oxygen bottles	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	0

Number	The Name of Item and Sub-item	Hours
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MEC06	Bottle Repair	24
MEC061	Oxygen Bottle Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of oxygen bottle and the location of its part and component 3) Check oxygen bottle before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Oxygen bottle repair 1) Oxygen bottle break-down 2) Oxygen bottle cleaning 3) Oxygen bottle check 4) Oxygen bottle part and component repair 5) Oxygen bottle assembly 6) Integrity test of oxygen bottle 7) Store the oxygen bottle	5

Number	The Name of Item and Sub-item		Hours
MEC06	Bottle Repair		48
MEC062	Nitrogen Bottle Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of nitrogen bottle	1) Basic operation principle of nitrogen bottle and classification 2) Common typical nitrogen bottle in aircraft system	2
2	Nitrogen bottle repair	1) Nitrogen bottle break-down, cleaning and check 2) Nitrogen bottle part repair 3) Nitrogen bottle assembly and test 4) Nitrogen bottle storage and package	8
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) 4)aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing platform	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical nitrogen bottles	1) Function difference 2) Repair difference	0

Number	The Name of Item and Sub-item	Hours
MEC06	Bottle Repair	24
MEC062	Nitrogen Bottle Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of nitrogen bottle and the location of its part and component 3) Check nitrogen bottle before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Nitrogen bottle repair 1) Nitrogen bottle break-down 2) Nitrogen bottle cleaning 3) Nitrogen bottle check 4) Nitrogen bottle part and component repair 5) Nitrogen bottle assembly 6) Integrity test of nitrogen bottle 7) Store the nitrogen bottle	5

Number	The Name of Item and Sub-item		Hours
MEC06	Bottle Repair		48
MEC063	Fire Extinguish Bottle Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of fire extinguish bottle	<ol style="list-style-type: none"> <li>1) Basic operation principle of fire extinguish bottle and classification</li> <li>2) Common typical fire extinguish bottle in aircraft system</li> </ol>	2
2	Fire extinguish bottle repair	<ol style="list-style-type: none"> <li>1) Fire extinguish bottle break-down, cleaning and check</li> <li>2) Fire extinguish bottle part repair</li> <li>3) Fire extinguish bottle assembly and test</li> <li>4) Fire extinguish bottle storage and package</li> </ol>	8
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing platform</li> </ol>	1
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical fire extinguish bottles	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	0

Number	The Name of Item and Sub-item	Hours
MEC06	Bottle Repair	24
MEC063	Fire Extinguish Bottle Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of fire extinguish bottle and the location of its part and component 3) Check fire extinguish bottle before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Fire extinguish bottle repair 1) Fire extinguish bottle break-down 2) Fire extinguish bottle cleaning 3) Fire extinguish bottle check 4) Fire extinguish bottle part and component repair 5) Fire extinguish bottle assembly 6) Integrity test of fire extinguish bottle 7) Store the fire extinguish bottle	5



### MEC07 Emergency Equipment Repair

Number	The Name of Item and Sub-item		Hours
MEC07	Emergency Equipment Repair		57
MEC071	Emergency Slide Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of emergency slide	1) Basic operation principle of emergency slide and classification 2) Common typical emergency slide in aircraft system	2
2	Emergency slide repair	1) Emergency slide break-down, cleaning and check 2) Emergency slide part repair 3) Emergency slide assembly and test 4) Emergency slide storage and package	7
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing equipment	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical emergency slides	1) Function difference 2) Repair difference	1

Number	The Name of Item and Sub-item	Hours
MEC07	Emergency Equipment Repair	48
MEC071	Emergency Slide Repair—Practice	16
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of emergency slide and the location of its part and component 3) Check emergency slide before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	Emergency slide repair 1) Emergency slide break-down 2) Emergency slide cleaning 3) Emergency slide check 4) Emergency slide part and component repair 5) Emergency slide assembly 6) Integrity test of emergency slide 7) Store the emergency slide	12

Number	The Name of Item and Sub-item		Hours
MEC07	Emergency Equipment Repair		57
MEC072	Life Raft Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of life raft	1) Basic operation principle of life raft and classification 2) Common typical life raft in aircraft system	2
2	Life raft repair	1) Life raft break-down, cleaning and check 2) Life raft part repair 3) Life raft assembly and test 4) Life raft storage and package	7
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing equipment	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical life rafts	1) Function difference 2) Repair difference	1

Number	The Name of Item and Sub-item	Hours
MEC07	Emergency Equipment Repair	48
MEC072	Life Raft Repair—Practice	16
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of life raft and the location of its part and component 3) Check life raft before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	Life raft repair 1) Life raft break-down 2) Life raft cleaning 3) Life raft check 4) Life raft part and component repair 5) Life raft assembly 6) Integrity test of life raft 7) Store the life raft	12

Number	The Name of Item and Sub-item		Hours
MEC07	Emergency Equipment Repair		57
MEC073	Life Vest Repair—Theory		9
Number	Knowledge Point	Training Contents	Hours
1	Overview of life vest	1) Basic operation principle of life vest and classification 2) Common typical life vest in aircraft system	1
2	Life vest repair	1) Life vest break-down, cleaning and check 2) Life vest part repair 3) Life vest assembly and test 4) Life vest storage and package	2
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing equipment	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical life vests	1) Function difference 2) Repair difference	0

Number	The Name of Item and Sub-item	Hours
MEC07	Emergency Equipment Repair	48
MEC073	Life Vest Repair—Practice	4
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of life vest and the location of its part and component 3) Check life vest before its maintenance 4) Use of specific tool and equipment 5) Repair process	1
3	Life vest repair 1) Life vest break-down 2) Life vest cleaning 3) Life vest check 4) Life vest part and component repair 5) Life vest assembly 6) Integrity test of life vest 7) Store the life vest	2

Number	The Name of Item and Sub-item		Hours
MEC07	Emergency Equipment Repair		57
MEC074	Oxygen Accessory Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of oxygen accessory	<ol style="list-style-type: none"> <li>1) Basic operation principle of oxygen accessory and classification</li> <li>2) Common typical oxygen accessory in aircraft system</li> </ol>	3
2	Oxygen accessory repair	<ol style="list-style-type: none"> <li>1) Oxygen accessory break-down, cleaning and check</li> <li>2) Oxygen accessory part repair</li> <li>3) Oxygen accessory assembly and test</li> <li>4) Oxygen accessory storage and package</li> </ol>	6
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing equipment</li> </ol>	1
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	1
6	Main difference from other typical oxygen accessories	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	1

Number	The Name of Item and Sub-item	Hours
MEC07	Emergency Equipment Repair	48
MEC074	Oxygen Accessory Repair—Practice	12
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of oxygen accessory and the location of its part and component 3) Check oxygen accessory before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	Oxygen accessory repair 1) Oxygen accessory break-down 2) Oxygen accessory cleaning 3) Oxygen accessory check 4) Oxygen accessory part and component repair 5) Oxygen accessory assembly 6) Integrity test of oxygen accessory 7) Store the oxygen accessory	8



### MEC08 Cabin/Cargo Compartment Equipment Repair

Number	The Name of Item and Sub-item		Hours
MEC08	Cabin/Cargo Compartment Equipment Repair		64
MEC081	Seat Repair—Theory		24
Number	Knowledge Point	Training Contents	Hours
1	Overview of seat	1) Basic operation principle of seat and classification 2) Common typical seat in aircraft system	6
2	Seat repair	1) Seat break-down, cleaning and check 2) Seat part repair 3) Seat assembly and test 4) Seat storage and package	8
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing equipment	2
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	2
6	Main difference from other typical seats	1) Function difference 2) Repair difference	2

Number	The Name of Item and Sub-item	Hours
MEC08	Cabin/Cargo Compartment Equipment Repair	56
MEC081	Seat Repair—Practice	16
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of seat and the location of its part and component 3) Check seat before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	Seat repair 1) Seat break-down 2) Seat cleaning 3) Seat check 4) Seat part and component repair 5) Seat assembly 6) Integrity test of seat 7) Store the seat	12

Number	The Name of Item and Sub-item		Hours
MEC08	Cabin/Cargo Compartment Equipment Repair		64
MEC082	Block Repair—Theory		8
Number	Knowledge Point	Training Contents	Hours
1	Overview of block	1) Basic operation principle of block and classification 2) Common typical block in aircraft system	1
2	Block repair	1) Block break-down, cleaning and check 2) Block part repair 3) Block assembly and test 4) Block storage and package	1
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing equipment	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical blocks	1) Function difference 2) Repair difference	0

Number	The Name of Item and Sub-item	Hours
MEC08	Cabin/Cargo Compartment Equipment Repair	56
MEC082	Block Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of block and the location of its part and component 3) Check block before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Block repair 1) Block break-down 2) Block cleaning 3) Block check 4) Block part and component repair 5) Block assembly 6) Integrity test of block 7) Store the block	5

Number	The Name of Item and Sub-item		Hours
MEC08	Cabin/Cargo Compartment Equipment Repair		64
MEC083	Galley Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of galley	1) Basic operation principle of galley and classification 2) Common typical galley in aircraft system	1
2	Galley repair	1) Galley break-down, cleaning and check 2) Galley part repair 3) Galley assembly and test 4) Galley storage and package	8
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing equipment	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical galleys	1) Function difference 2) Repair difference	1

Number	The Name of Item and Sub-item	Hours
MEC08	Cabin/Cargo Compartment Equipment Repair	56
MEC083	Galley Repair—Practice	16
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of galley and the location of its part and component 3) Check galley before its maintenance 4) Use of specific tool and equipment 5) Repair process	4
3	Galley repair 1) Galley break-down 2) Galley cleaning 3) Galley check 4) Galley part and component repair 5) Galley assembly 6) Integrity test of galley 7) Store the galley	11

Number	The Name of Item and Sub-item		Hours
MEC08	Cabin/Cargo Compartment Equipment Repair		64
MEC084	Lavatory Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of lavatory	1) Basic operation principle of lavatory and classification 2) Common typical lavatory in aircraft system	1
2	Lavatory repair	1) Lavatory break-down, cleaning and check 2) Lavatory part repair 3) Lavatory assembly and test 4) Lavatory storage and package	8
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing equipment	1
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical lavatories	1) Function difference 2) Repair difference	1

Number	The Name of Item and Sub-item	Hours
MEC08	Cabin/Cargo Compartment Equipment Repair	56
MEC084	Lavatory Repair—Practice	16
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of lavatory and the location of its part and component 3) Check lavatory before its maintenance 4) Use of specific tool and equipment 5) Repair process	3
3	Lavatory repair 1) Lavatory break-down 2) Lavatory cleaning 3) Lavatory check 4) Lavatory part and component repair 5) Lavatory assembly 6) Integrity test of lavatory 7) Store the lavatory	12



MEC09 Control System Mechanic Part Repair

Number	The Name of Item and Sub-item		Hours
MEC09	Control System Mechanic Part Repair —Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Overview of control system mechanic part	<ol style="list-style-type: none"> <li>1) Basic operation principle of control system mechanic part and classification</li> <li>2) Common typical control system mechanic part in aircraft system</li> </ol>	3
2	Control system mechanic part repair	<ol style="list-style-type: none"> <li>1) Control system mechanic part break-down, cleaning and check</li> <li>2) Control system mechanic part repair</li> <li>3) Control system mechanic part assembly and test</li> <li>4) Control system mechanic part storage and package</li> </ol>	8
3	Use of maintenance manual and technical file (common part)	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4
4	Use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool</li> <li>2) Use of specific measurement tool</li> <li>3) Use of testing equipment</li> </ol>	2
5	The safety caution notes of repair (common part)	<ol style="list-style-type: none"> <li>1) The safety protection of personnel, equipment and tool</li> <li>2) Application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical control system mechanic parts	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	1

Number	The Name of Item and Sub-item	Hours
MEC09	Control System Mechanic Part Repair—Practice	16
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of control system mechanic part and the location of its part and component 3) Check control system mechanic part before its maintenance 4) Use of specific tool and equipment 5) Repair process	4
3	Control system mechanic part repair 1) Control system mechanic part break-down 2) Control system mechanic part cleaning 3) Control system mechanic part check 4) Control system mechanic part and component repair 5) Control system mechanic part assembly 6) Integrity test of control system mechanic part 7) Store the control system mechanic part	11

MEC10 Water System Accessory Repair

Number	The Name of Item and Sub-item		Hours
MEC10	Water System Accessory Repair—Theory		12
Number	Knowledge Point	Training Contents	Hours
1	Overview of water system accessory	1) Basic operation principle of water system accessory and classification 2) Common typical water system accessory in aircraft system	1
2	Water system accessory repair	1) Water system accessory break-down, cleaning and check 2) Water system accessory part repair 3) Water system accessory assembly and test 4) Water system accessory storage and package	5
3	Use of maintenance manual and technical file (common part)	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
4	Use of specific tool, measurement tool and equipment	1) Use of specific tool 2) Use of specific measurement tool 3) Use of testing equipment	0.5
5	The safety caution notes of repair (common part)	1) The safety protection of personnel, equipment and tool 2) Application with chemical substances and safety caution notes	1
6	Main difference from other typical water system accessories	1) Function difference 2) Repair difference	0.5

Number	The Name of Item and Sub-item	Hours
MEC10	Water System Accessory Repair—Practice	8
Number	Knowledge Point	Hours
1	Use the associated maintenance manual and technical file 1) Various maintenance manual and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	1
2	Production preparation 1) Safe production and individual protection 2) Identify the structure of water system accessory and the location of its part and component 3) Check water system accessory before its maintenance 4) Use of specific tool and equipment 5) Repair process	2
3	Water system accessory repair 1) Water system accessory break-down 2) Water system accessory cleaning 3) Water system accessory check 4) Water system accessory and component repair 5) Water system accessory assembly 6) Integrity test of water system accessory 7) Store the water system accessory	5

Aircraft Avionics Accessory Repair(AVC)  
AVC01 Radio Equipment Repair

Number	The Name of Item and Sub-item		Hours
AVC01	Radio Equipment Repair		127
AVC011	Receiver Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Basic repair of receiver	<ol style="list-style-type: none"> <li>1) Classification and typical unit of aviation radio receiver</li> <li>2) Composition, function and basic operation principle of VOR/MB receiver</li> <li>3) Composition of ILS receiver and basic operation principle</li> <li>4) 4)composition of ADF receiver and basic operation principle</li> </ol>	4
2	Repair the typical receiver unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical receiver unit;</li> <li>2) Function test of receiver unit and use of testing equipment</li> <li>3) Receiver unit break-down</li> <li>4) Receiver unit cleaning</li> <li>5) Receiver unit check</li> <li>6) Receiver unit repair</li> <li>7) Receiver unit assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of cmm (or ohm)</li> <li>4) 4)use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool and equipment</li> <li>2) ARINC429 analysis device, T1200A use of testing platform</li> <li>3) Use of specific navigation signal source</li> <li>4) Use of discrete interface unit</li> </ol>	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical receivers	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC01	Radio Equipment Repair	99
AVC011	Receiver Repair—Practice	16
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as the other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as the other relevant data</li> </ol>	4
3	<ol style="list-style-type: none"> <li>1) Master the operation of the specific tools and equipment</li> <li>2) Understand the application with specific navigation signal source</li> <li>3) Understand the application with arinc429 analysis device</li> <li>4) Understand the application with discrete interface unit</li> </ol>	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of receiver unit	0.5
6	Clean the receiver unit	0.5
7	Check the receiver unit after its break-down	0.5
8	The basic method used to repair the receiver unit	1
9	Assemble the receiver unit	0.5
10	Test the receiver unit	4
11	Store and package the receiver unit	0.5

Number	The Name of Item and Sub-item		Hours
AVC01	Radio Equipment Repair		127
AVC012	Transmitter Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Basis of transmitter repair	<ol style="list-style-type: none"> <li>1) Classification and typical unit of aviation radio transmitter</li> <li>2) Composition, function and basic operation principle of VHF communication transceiver</li> <li>3) Composition, function and basic operation principle of hfcommunication transceiver.</li> </ol>	4
2	Repair the typical transmitter unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical transmitter unit;</li> <li>2) Function test of transmitter unit and use of testing equipment</li> <li>3) Transmitter unit break-down</li> <li>4) Transmitter unit cleaning</li> <li>5) Transmitter unit check</li> <li>6) Transmitter unit repair</li> <li>7) Transmitter unit assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of cmm (or ohm)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool and equipment</li> <li>2) ARINC429 analysis device, T1200A use of testing platform</li> <li>3) Use of discrete interface unit</li> </ol>	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical transmitters	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC01	Radio Equipment Repair	99
AVC012	Transmitter Repair—Practice	16
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as the other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as</li> </ol>	4
3	<ol style="list-style-type: none"> <li>1) Master the operation of the specific tools and equipment</li> <li>2) Understand the application with specific navigation signal source</li> <li>3) Understand the application with discrete interface unit</li> </ol>	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of transmitter unit	0.5
6	Clean the transmitter unit	0.5
7	Check the transmitter unit after its break-down	0.5
8	The basic method used to repair the transmitter unit	1
9	Assemble the transmitter unit	0.5
10	Test the transmitter unit	4
11	Store and package the transmitter unit	0.5



Number	The Name of Item and Sub-item		Hours
AVC01	Radio Equipment Repair		127
AVC013	Antenna and its Coupler, Controller Repair—Theory		13
Number	Knowledge Point	Training Contents	Hours
1	Basis of antenna and its coupler and controller repair	Composition, function and basic operation principle of antenna and its coupler and controller	1
2	Repair the typical antenna and its coupler and controller unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical antenna and its coupler unit;</li> <li>2) Function test of antenna and its coupler unit and use of testing equipment</li> <li>3) Antenna and its coupler unit break-down</li> <li>4) Antenna and its coupler unit cleaning</li> <li>5) Antenna and its coupler unit check</li> <li>6) Antenna and its coupler unit repair</li> <li>7) Antenna and its coupler unit assembly and storage</li> </ol>	4
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of cmm (or ohm)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	Use of specific tool and equipment	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical antenna and its coupler and controllers	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	0

Number	The Name of Item and Sub-item	Hours
AVC01	Radio Equipment Repair	99
AVC013	Antenna and its Coupler, Control Repair—Practice	13
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as the other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	<ol style="list-style-type: none"> <li>1) Master the operation of the specific tools and equipment</li> <li>2) Understand the application with specific navigation signal source</li> <li>3) Understand the application with discrete interface unit</li> </ol>	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of antenna and its coupler and controller unit	0.5
6	clean the antenna and its coupler and controller unit	0.5
7	Check the antenna and its coupler and controller unit after its break-down	0.5
8	The basic method used to repair the antenna and its coupler and controller unit	1
9	Assemble the antenna and its coupler and controller unit	0.5
10	Test the antenna and its coupler and controller unit	2
11	Store and package the antenna and its coupler and controller unit	0.5

Number	The Name of Item and Sub-item		Hours
AVC01	Radio Device Repair		127
AVC014	TCAS Accessory Repair—Theory		18
Number	Knowledge Point	Training Contents	Hours
1	Basis of TCAS repair	<ol style="list-style-type: none"> <li>1) Typical architecture of TCAS</li> <li>2) Introduce TCAS operation principle diagram</li> </ol>	2
2	Repair the typical TCAS unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical TCAS unit</li> <li>2) Function test of TCAS unit and use of testing equipment</li> <li>3) TCAS unit break-down</li> <li>4) TCAS unit cleaning</li> <li>5) TCAS unit check</li> <li>6) TCAS unit repair</li> <li>7) TCAS unit assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	Use of specific tool and equipment	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical TCAS	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC01	Radio Device Repair	99
AVC014	TCAS Accessory Repair—Practice	13
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	<ol style="list-style-type: none"> <li>1) Master the operation of the specific tools and equipment</li> <li>2) Understand the application with specific navigation signal source</li> <li>3) Understand the application with discrete interface unit</li> </ol>	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of TCAS unit	0.5
6	clean TCAS unit	0.5
7	Check TCAS unit after its break-down	0.5
8	The basic method used to repair TCAS unit	1
9	Assemble the TCAS unit	0.5
10	Test the TCAS unit	2
11	Store and package the TCAS unit	0.5

Number	The Name of Item and Sub-item		Hours
AVC01	Radio Device Repair		127
AVC015	DME, Transponder Accessory Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Basis of DME, transponder repair	<ol style="list-style-type: none"> <li>1) Typical architecture of DME,transponder</li> <li>2) Introduce DME,transponder operation principle diagram</li> </ol>	4
2	Repair the typical DME, transponder unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical DME,transponder unit;</li> <li>2) Function test of DME, transponder unit and use of testing equipment</li> <li>3) DME, transponder unit break-down</li> <li>4) DME, transponder unit cleaning</li> <li>5) DME, transponder unit check</li> <li>6) DME, transponder unit repair</li> <li>7) DME, transponder unit assembly and storage</li> </ol>	7
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool and equipment</li> <li>2) Introduce DME and transponder testing platform</li> </ol>	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical DME, transponder	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	1

Number	The Name of Item and Sub-item	Hours
AVC01	Radio Device Repair	99
AVC015	DME, Transponder Accessory Repair—Practice	15
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of DME,transponder unit	0.5
6	Clean DME, transponder unit	0.5
7	Check DME, transponder unit after its break-down	0.5
8	The basic method used to repair DME, transponder unit	1
9	Assemble the DME, transponder unit	0.5
10	Test the DME, transponder unit	3
11	Store and package the DME, transponder unit	0.5

Number	The Name of Item and Sub-item		Hours
AVC01	Radio Device Repair		127
AVC016	Communication and Audio Accessory Repair—Theory		18
Number	Knowledge Point	Training Contents	Hours
1	Basis of communication and audio accessory repair	<ol style="list-style-type: none"> <li>1) Typical architecture of communication and audio accessory</li> <li>2) Introduce communication and audio accessory operation principle diagram</li> </ol>	2
2	Repair the typical communication and audio accessory unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical communication and audio accessory unit</li> <li>2) Function test of communication and audio accessory unit and use of testing equipment</li> <li>3) Communication and audio accessory unit break-down</li> <li>4) Communication and audio accessory unit cleaning</li> <li>5) Communication and audio accessory unit check</li> <li>6) Communication and audio accessory unit repair</li> <li>7) Communication and audio accessory unit assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tools and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tools and equipment</li> <li>2) Introduce communication and audio accessory testing platform</li> </ol>	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical communication and audio accessory	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC01	Radio Device Repair	99
AVC016	Communication and Audio Accessory Repair—Practice	13
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of communication and audio accessory unit	0.5
6	Clean communication and audio accessory unit	0.5
7	Check communication and audio accessory unit after its break-down	0.5
8	The basic method used to repair communication and audio accessory unit	1
9	Assemble the communication and audio accessory unit	0.5
10	Test the communication and audio accessory unit	2
11	Store and package the communication and audio accessory unit	0.5



Number	The Name of Item and Sub-item		Hours
AVC01	Radio Device Repair		127
AVC017	Radio Altimeter—Theory		18
Number	Knowledge Point	Training Contents	Hours
1	Basis of radio altimeter repair	<ol style="list-style-type: none"> <li>1) Typical architecture of radio altimeter</li> <li>2) Introduce radio altimeter operation principle diagram</li> </ol>	2
2	Repair the typical radio altimeter unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical radio altimeter unit;</li> <li>2) Function test of radio altimeter unit and use of testing equipment</li> <li>3) Radio altimeter unit break-down</li> <li>4) Radio altimeter unit cleaning</li> <li>5) Radio altimeter unit check</li> <li>6) Radio altimeter unit repair</li> <li>7) Radio altimeter unit assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool and equipment</li> <li>2) Introduce radio altimeter testing platform</li> </ol>	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical radio altimeter	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC01	Radio Device Repair	99
AVC017	Radio Altimeter—Practice	13
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of Radio altimeter unit	0.5
6	Clean radio altimeter unit	0.5
7	Check radio altimeter unit after its break-down	0.5
8	The basic method used to repair radio altimeter unit	1
9	Assemble the radio altimeter unit	0.5
10	Test the radio altimeter unit	2
11	Store and package the radio altimeter unit	0.5

## AVC02 Radar Equipment Repair

Number	The Name of Item and Sub-item		Hours
AVC02	Radar Equipment Repair		36
AVC021	Weather Radar Transceiver Repair—Theory		22
Number	Knowledge Point	Training Contents	Hours
1	Basis of weather radar transceiver repair	<ol style="list-style-type: none"> <li>1) Typical architecture of weather radar transceiver</li> <li>2) Introduce weather radar transceiver operation principle diagram</li> </ol>	6
2	Repair the typical weather radar transceiver unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical weather radar transceiver unit;</li> <li>2) Function test of weather radar transceiver unit and use of testing equipment</li> <li>3) Weather radar transceiver unit break-down</li> <li>4) Weather radar transceiver unit cleaning</li> <li>5) Weather radar transceiver unit check</li> <li>6) Weather radar transceiver unit repair</li> <li>7) Weather radar transceiver unit assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool and equipment</li> <li>2) Introduce weather radar transceiver testing platform</li> </ol>	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical weather radar transceiver	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC02	Radar Equipment Repair	28
AVC021	Weather Radar Transceiver Repair—Practice	17
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of Weather radar transceiver unit	0.5
6	Clean Weather radar transceiver unit	0.5
7	Check Weather radar transceiver unit after its break-down	0.5
8	The basic method used to repair Weather radar transceiver unit	2
9	Assemble the Weather radar transceiver unit	0.5
10	Test the Weather radar transceiver unit	4
11	Store and package the Weather radar transceiver unit	0.5

Number	The Name of Item and Sub-item		Hours
AVC02	Radar Equipment Repair		36
AVC022	Weather Radar Antenna Repair—Theory		14
Number	Knowledge Point	Training Contents	Hours
1	Basis of weather radar antenna repair	<ol style="list-style-type: none"> <li>1) Typical architecture of weather radar antenna</li> <li>2) Introduce weather radar antenna operation principle diagram</li> </ol>	2
2	Repair the typical weather radar antenna unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical weather radar antenna unit;</li> <li>2) Function test of weather radar antenna unit and use of testing equipment</li> <li>3) Weather radar antenna unit break-down</li> <li>4) Weather radar antenna unit cleaning</li> <li>5) Weather radar antenna unit check</li> <li>6) Weather radar antenna unit repair</li> <li>7) Weather radar antenna unit assembly and storage</li> </ol>	3
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool and equipment</li> <li>2) Introduce weather radar antenna testing platform</li> </ol>	1
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical Weather radar antenna	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC02	Radar Equipment Repair	28
AVC022	Weather Radar Antenna Repair—Practice	11
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of weather radar antenna unit	0.5
6	Clean weather radar antenna unit	0.5
7	Check weather radar antenna unit after its break-down	0.5
8	The basic method used to repair weather radar antenna unit	0.5
9	Assemble the weather radar antenna unit	0.5
10	Test the weather radar antenna unit	0.5
11	Store and package the weather radar antenna unit	0.5

### AVC03 Control Unit Repair

Number	The Name of Item and Sub-item		Hours
AVC03	Control Unit Repair		80
AVC031	Autopilot System Accessory Repair—Theory		19
Number	Knowledge Point	Training Contents	Hours
1	Basis of autopilot system accessory repair	<ol style="list-style-type: none"> <li>1) Typical architecture of autopilot system accessory</li> <li>2) Introduce autopilot system accessory operation principle diagram</li> </ol>	4
2	Repair the typical autopilot system accessory unit	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical autopilot system accessory</li> <li>2) Function test of autopilot system accessory and use of testing equipment</li> <li>3) Autopilot system accessory break-down</li> <li>4) Autopilot system accessory cleaning</li> <li>5) Autopilot system accessory check</li> <li>6) Autopilot system accessory repair</li> <li>7) Autopilot system accessory assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool and equipment</li> <li>2) Introduce autopilot system accessory testing platform</li> </ol>	1
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical autopilot system accessory	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC03	Control Unit Repair	60
AVC031	Autopilot System Accessory Repair—Practice	15
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of autopilot system accessory	0.5
6	Clean autopilot system accessory	0.5
7	Check autopilot system accessory after its break-down	0.5
8	The basic method used to repair autopilot system accessory	2
9	Assemble the autopilot system accessory	0.5
10	Test the autopilot system accessory	2
11	Store and package the autopilot system accessory	0.5



Number	The Name of Item and Sub-item		Hours
AVC03	Control Unit Repair		80
AVC032	Cabin Pressurization System Repair—Theory		17
Number	Knowledge Point	Training Contents	
1	Basis of cabin pressurization system accessory repair	<ol style="list-style-type: none"> <li>1) Typical architecture of cabin pressurization system accessory</li> <li>2) Introduce cabin pressurization system accessory operation principle diagram</li> </ol>	2
2	Repair the typical cabin pressurization system accessory	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical cabin pressurization system accessory ;</li> <li>2) Function test of cabin pressurization system accessory and use of testing equipment</li> <li>3) Cabin pressurization system accessory break-down</li> <li>4) Cabin pressurization system accessory cleaning</li> <li>5) Cabin pressurization system accessory check</li> <li>6) Cabin pressurization system accessory repair</li> <li>7) Cabin pressurization system accessory assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) the types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM(or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool and equipment</li> <li>2) Introduce cabin pressurization system testing platform</li> </ol>	1
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical cabin pressurization system accessory	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC03	Control Unit Repair	60
AVC032	Cabin Pressurization System Repair—Practice	13
Number	Training Items	Hours
1	1) Safe application with electrical power and radio frequency protection of maintenance personnel 2) The static electricity discharge protection of avionics accessory 3) Consumption material, application with chemical substances and safety caution notes	2
2	1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format. 2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data. 3) Read and comprehend the latest and effective CMM (or OHM) 4) Read and comprehend the latest and effective job sheet and card as well as other relevant data	4
3	Master the operation of the specific tools and equipment	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of cabin pressurization system accessory	0.5
6	Clean cabin pressurization system accessory	0.5
7	Check cabin pressurization system accessory after its break-down	0.5
8	The basic method used to repair cabin pressurization system accessory	1
9	Assemble the cabin pressurization system accessory	0.5
10	Test the cabin pressurization system accessory	2
11	Store and package the cabin pressurization system accessory	0.5

Number	The Name of Item and Sub-item		Hours
AVC03	Control Unit Repair		80
AVC033	Control Panel Repair—Theory		17
Number	Knowledge Point	Training Contents	Hours
1	Basis of control panel repair	<ol style="list-style-type: none"> <li>1) Typical architecture of control panel</li> <li>2) Introduce control panel operation principle diagram</li> </ol>	2
2	Repair the typical control panel	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical control panel</li> <li>2) Function test of control panel and use of testing equipment</li> <li>3) Control panel break-down</li> <li>4) Control panel cleaning</li> <li>5) Control panel check</li> <li>6) Control panel repair</li> <li>7) Control panel assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tool and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tool and equipment</li> <li>2) Introduce control panel testing platform</li> </ol>	1
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical Control panel	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC03	Control Unit Repair	60
AVC033	control panel repair—Practice	13
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of control panel	0.5
6	Clean control panel	0.5
7	Check control panel after its break-down	0.5
8	The basic method used to repair control panel	1
9	Assemble the control panel	0.5
10	Test the control panel	2
11	Store and package the control panel	0.5

Number	The Name of Item and Sub-item		Hours
AVC03	Control Unit Repair		80
AVC034	Controller and Process Modular Repair—Theory		27
Number	Knowledge Point	Training Contents	Hours
1	Basis of controller and process modular repair	1) Typical architecture of controller and process modular 2) Introduce the operation principle diagram of following controllers and process modular: - Anti-skid autobrake control unit (AACU) - Generator control unit (GCU) - Passenger cabin temperature controller - Flap and slat electrical unit (FSEU) - Proximity switch electrical unit (PSEU) - Auto fire/overheat logical test system (AFOLTS) - Print electrical circuit board unit - Print electrical circuit board unit in landing configuration - Electrical warning unit-stall warning/windshear detection electrical circuit board	8
2	Repair the typical controller and process modular	1) The structure, interface and parameter of typical controller and process modular 2) Function test of controller and process modular and use of testing equipment 3) Controller and process modular break-down 4) Controller and process modular cleaning 5) Controller and process modular check 6) Controller and process modular repair 7) Controller and process modular assembly and storage	6
3	Use of maintenance manual and technical file	1) ATA100 specification 2) The types of manuals required for accessory maintenance and brief introduction 3) Use of CMM (or OHM) 4) Use of job sheet and card	4
4	Use of specific tools and equipment	1) Use of specific tools and equipment 2) Introduce controller and process modular testing platform	4
5	The safety caution notes of repair	1) Safe application with electrical power and radio frequency protection of maintenance personnel 2) The static electricity discharge protection during avionics accessory repair 3) Consumption material, application with chemical substances and safety caution notes	2
6	Main difference from other typical controller and process modular	1) Function difference 2) Repair difference	3

Number	The Name of Item and Sub-item	Hours
AVC03	Control Unit Repair	60
AVC034	Controller and Process Modular Repair—Practice	19
Number	Training Items	Hours
1	1) Safe application with electrical power and radio frequency protection of maintenance personnel 2) The static electricity discharge protection of avionics accessory 3) Consumption material, application with chemical substances and safety caution notes	2
2	1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format. 2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data. 3) Read and comprehend the latest and effective CMM (or OHM) 4) Read and comprehend the latest and effective job sheet and card as well as other relevant data	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of controller and process modular	0.5
6	Clean controller and process modular	0.5
7	Check controller and process modular after its break-down	0.5
8	The basic method used to repair controller and process modular	4
9	Assemble the controller and process modular	0.5
10	Test the controller and process modular	4
11	Store and package the controller and process modular	0.5

### AVC04 Electrical Display Repair

Number	The Name of Item and Sub-item		Hours
AVC04	Electrical Display Repair		36
AVC041	CRT Display Repair—Theory		18
Number	Knowledge Point	Training Contents	Hours
1	Basis of CRT display repair	1) Basic architecture of CRT display 2) Function and basic operation principle of CRT display	2
2	Repair the typical CRT display	1) The structure, interface and parameter of typical CRT display 2) Function test of CRT display and use of testing equipment 3) CRT display break-down 4) CRT display cleaning 5) CRT display check 6) CRT display repair 7) CRT display assembly and storage	6
3	Use of maintenance manual and technical file	1) ATA100 specification 2) The types of manuals required for accessory maintenance and brief introduction 3) Use of CMM (or OHM) 4) Use of job sheet and card	4
4	Use of specific tools and equipment	Use of specific tools and equipment	2
5	The safety caution notes of repair	1) Safe application with electrical power and radio frequency protection of maintenance personnel 2) The static electricity discharge protection during avionics accessory repair. 3) Consumption material, application with chemical substances and safety caution notes	2
6	Main difference from other typical CRT display	1) Function difference 2) Repair difference	2

Number	The Name of Item and Sub-item	Hours
AVC04	Electrical Display Repair	28
AVC041	CRT Display Repair—Practice	14
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of CRT display	0.5
6	Clean CRT display	0.5
7	Check CRT display after its break-down	0.5
8	The basic method used to repair CRT display	1
9	Assemble the CRT display	0.5
10	Test the CRT display	2
11	Store and package the CRT display	0.5



Number	The Name of Item and Sub-item		Hours
AVC04	Electrical Display Repair		36
AVC042	LCD Display Repair—Theory		18
Number	Knowledge Point	Training Contents	Hours
1	Basis of LCD display repair	<ol style="list-style-type: none"> <li>1) Basic architecture of LCD display</li> <li>2) Function and basic operation principle of LCD display</li> </ol>	2
2	Repair the typical LCD display	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical LCD display</li> <li>2) Function test of LCD display and use of testing equipment</li> <li>3) LCD display break-down</li> <li>4) LCD display cleaning</li> <li>5) LCD display check</li> <li>6) LCD display repair</li> <li>7) LCD display assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tools and equipment	Use of specific tools and equipment	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical LCD display	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC04	Electrical Display Repair	28
AVC042	LCD Display Repair—Practice	14
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of LCD display	0.5
6	Clean LCD display	0.5
7	Check LCD display after its break-down	0.5
8	The basic method used to repair LCD display	1
9	Assemble the LCD display	0.5
10	Test the LCD display	2
11	Store and package the LCD display	0.5

### AVC05 Instrument Repair

Number	The Name of Item and Sub-item		Hours
AVC05	Instrument Repair		56
AVC051	Mechanical Instrument Repair—Theory		18
	Knowledge Point	Training Contents	
1	Basis of mechanical instrument repair	1) Basic architecture of mechanical instrument 2) Function and basic operation principle of mechanical instrument	2
2	Repair the typical mechanical instrument	1) The structure, interface and parameter of typical mechanical instrument unit 2) Function test of mechanical instrument unit and use of testing equipment 3) Mechanical instrument unit break-down 4) Mechanical instrument unit cleaning 5) Mechanical instrument unit check 6) Mechanical instrument unit repair 7) Mechanical instrument unit assembly and storage	6
3	Use of maintenance manual and technical file	1) ATA100 specification 2) The types of manuals required for accessory maintenance and brief introduction 3) Use of CMM (or OHM) 4) Use of job sheet and card	4
4	Use of specific tools and equipment	Use of specific tools and equipment	2
5	The safety caution notes of repair	1) Safe application with electrical power and radio frequency protection of maintenance personnel 2) The static electricity discharge protection during avionics accessory repair. 3) Consumption material, application with chemical substances and safety caution notes	2
6	Main difference from other typical mechanical instrument	1) Function difference 2) Repair difference	2

Number	The Name of Item and Sub-item	Hours
AVC05	Instrument Repair	52
AVC051	Mechanical Instrument Repair—Practice	17
Number	Training Items	Hours
1	<ul style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ul>	2
2	<ul style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ul>	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of mechanical instrument	1
6	Clean mechanical instrument	0.5
7	Check mechanical instrument after its break-down	0.5
8	The basic method used to repair mechanical instrument	1
9	Assemble the mechanical instrument	4
10	Test the mechanical instrument	1
11	Store and package the mechanical instrument	0.5

Number	The Name of Item and Sub-item		Hours
AVC05	Instrument Repair		56
AVC052	Electronic Instrument Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Basis of electronic instrument repair	<ol style="list-style-type: none"> <li>1) Basic architecture of electronic instrument</li> <li>2) Function and basic operation principle of electronic instrument</li> </ol>	4
2	Repair the typical electronic instrument	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical electronic instrument unit</li> <li>2) Function test of electronic instrument unit and use of testing equipment</li> <li>3) Electronic instrument unit break-down</li> <li>4) Electronic instrument unit cleaning</li> <li>5) Electronic instrument unit check</li> <li>6) Electronic instrument unit repair</li> <li>7) Electronic instrument unit assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tools and equipment	Use of specific tools and equipment	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical electronic instrument	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC05	Instrument Repair	52
AVC052	Electronic Instrument Repair—Practice	16
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of electronic instrument	1
6	Clean electronic instrument	0.5
7	Check electronic instrument after its break-down	0.5
8	The basic method used to repair electronic instrument	1
9	Assemble the electronic instrument	2
10	Test the electronic instrument	2
11	Store and package the electronic instrument	0.5

Number	The Name of Item and Sub-item		Hours
AVC05	Instrument Repair		56
AVC053	Gyro Instrument Repair—Theory		18
Number	Knowledge Point	Training Contents	Hours
1	Basis of gyro instrument repair	<ol style="list-style-type: none"> <li>1) Basic architecture of gyro instrument</li> <li>2) Function and basic operation principle of gyro instrument</li> </ol>	2
2	Repair the typical gyro instrument	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical gyro instrument unit ;</li> <li>2) Function test of gyro instrument unit and use of testing equipment</li> <li>3) Gyro instrument unit break-down</li> <li>4) Gyro instrument unit cleaning</li> <li>5) Gyro instrument unit check</li> <li>6) Gyro instrument unit repair</li> <li>7) Gyro instrument unit assembly and storage</li> </ol>	6
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tools and equipment	Use of specific tools and equipment	2
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical Gyro instrument	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	2

Number	The Name of Item and Sub-item	Hours
AVC05	Instrument Repair	52
AVC053	Gyro Instrument Repair—Practice	19
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of gyro instrument	2
6	Clean gyro instrument	0.5
7	Check gyro instrument after its break-down	0.5
8	The basic method used to repair gyro instrument	1
9	Assemble the gyro instrument	4
10	Test the gyro instrument	2
11	Store and package the gyro instrument	0.5



## AVC06 Airborne Computer Repair

Number	The Name of Item and Sub-item		Hours
AVC06	Airborne Computer Repair—Theory		28
Number	Knowledge Point	Training Contents	Hours
1	Basis of airborne computer repair	1) The principle of basic composition of computer 2) Airborne data bus 3) Build-in test, reliability and error tolerance technique 4) The composition and operation principle of the following airborne computers: Air Data Computer, Engine Indication Crew Alert System, Flight Management Computer, Flight Information Management System Computer	8
2	Test of airborne computer	1) Automatic test system principle 2) Avionics test standard architecture ARINC 608A 3) ATLAS (Abbreviated Test Language for All Systems) 4) Automatic test of airborne computer 5) Operation and maintenance of workshop automatic testing equipment ATE	8
3	Repair the typical airborne computer	1) Airborne computer break-down 2) Airborne compute cleaning 3) Airborne computer check 4) Airborne computer repair 5) Airborne computer assemble and storage	2
4	Use of maintenance manual and technical file	1) ATA100 specification 2) The types of manuals required for accessory maintenance and brief introduction 3) Use of CMM (or OHM) 4) Use of job sheet and card	4
5	Use of specific tools and equipment	1) Use of specific tools and equipment 2) Automatic test device and test software	2
6	The safety caution notes of repair	1) Safe application with electrical power and radio frequency protection of maintenance personnel 2) The static electricity discharge protection during avionics accessory repair. 3) Consumption material, application with chemical substances and safety caution notes	2
7	Main difference from other typical airborne computer	1) Function difference 2) Repair difference	2

Number	The Name of Item and Sub-item	Hours
AVC06	Airborne Computer Repair—Practice	16
Number	Training Items	Hours
1	1) Safe application with electrical power and radio frequency protection of maintenance personnel 2) The static electricity discharge protection of avionics accessory 3) Consumption material, application with chemical substances and safety caution notes	2
2	1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format. 2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data. 3) Read and comprehend the latest and effective CMM (or OHM) 4) Read and comprehend the latest and effective job sheet and card as well as other relevant data	4
3	Master the operation of the specific tools and equipment	4
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of airborne computer unit	0.5
6	Clean airborne computer unit	0.5
7	Check airborne computer unit after its break-down	0.5
8	The basic method used to repair airborne computer unit	1
9	Assemble the airborne computer unit	0.5
10	Test the airborne computer unit	2
11	Store and package the airborne computer unit	0.5

### AVC07 Recorder Repair

Number	The Name of Item and Sub-item		Hours
AVC07	Recorder Repair		38
AVC071	Audio Recorder Repair—Theory		14
Number	Knowledge Point	Training Contents	Hours
1	Basis of audio recorder repair	<ol style="list-style-type: none"> <li>1) Basic architecture of audio recorder</li> <li>2) Function and basic operation principle of audio recorder</li> </ol>	2
2	Repair the typical audio recorder	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical audio recorder unit</li> <li>2) Function test of audio recorder unit and use of testing equipment</li> <li>3) Audio recorder unit break-down</li> <li>4) Audio recorder unit cleaning</li> <li>5) Audio recorder unit check</li> <li>6) Audio recorder unit repair</li> <li>7) Audio recorder unit assembly and storage</li> </ol>	4
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tools and equipment	Use of specific tools and equipment	1
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair.</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical audio recorder	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	1

Number	The Name of Item and Sub-item	Hours
AVC07	Recorder Repair	36
AVC071	Audio Recorder Repair—Practice	12
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of audio recorder	0.5
6	Clean audio recorder	0.5
7	Check audio recorder after its break-down	0.5
8	The basic method used to repair audio recorder	1
9	Assemble the audio recorder	0.5
10	Test the audio recorder	1
11	Store and package the audio recorder	0.5

Number	The Name of Item and Sub-item		Hours
AVC07	Recorder Repair		38
AVC072	Flight Recorder Repair—Theory		14
Number	Knowledge Point	Training Contents	Hours
1	Basis of flight recorder repair	<ol style="list-style-type: none"> <li>1) Basic architecture of flight recorder</li> <li>2) Function and basic operation principle of flight recorder</li> </ol>	2
2	Repair the typical flight recorder	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical flight recorder unit ;</li> <li>2) Function test of flight recorder unit and use of testing equipment</li> <li>3) Flight recorder unit break-down</li> <li>4) Flight recorder unit cleaning</li> <li>5) Flight recorder unit check</li> <li>6) Flight recorder unit repair</li> <li>7) Flight recorder unit assembly and storage</li> </ol>	4
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tools and equipment	<ol style="list-style-type: none"> <li>1) Use of specific tools and equipment</li> </ol>	1
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical Flight recorders	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	1

Number	The Name of Item and Sub-item	Hours
AVC07	Recorder Repair	36
AVC072	Flight Recorder Repair—Practice	12
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of flight recorder	0.5
6	Clean flight recorder	0.5
7	Check flight recorder after its break-down	0.5
8	The basic method used to repair flight recorder	1
9	Assemble the flight recorder	0.5
10	Test the flight recorder	1
11	Store and package the flight recorder	0.5

Number	The Name of Item and Sub-item		Hours
AVC07	Recorder Repair		38
AVC073	QAR repair—Theory		10
Number	Knowledge Point	Training Contents	Hours
1	Basis of QAR repair	<ol style="list-style-type: none"> <li>1) Basic architecture of QAR</li> <li>2) Function and basic operation principle of QAR</li> </ol>	1
2	Repair the typical QAR	<ol style="list-style-type: none"> <li>1) The structure, interface and parameter of typical QAR unit</li> <li>2) Function test of QAR unit and use of testing equipment</li> <li>3) QAR unit break-down</li> <li>4) QAR unit cleaning</li> <li>5) QAR unit check</li> <li>6) QAR unit repair</li> <li>7) QAR unit assembly and storage</li> </ol>	2
3	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) ATA100 specification</li> <li>2) The types of manuals required for accessory maintenance and brief introduction</li> <li>3) Use of CMM (or OHM)</li> <li>4) Use of job sheet and card</li> </ol>	4
4	Use of specific tools and equipment	Use of specific tools and equipment	1
5	The safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection during avionics accessory repair</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
6	Main difference from other typical QAR	<ol style="list-style-type: none"> <li>1) Function difference</li> <li>2) Repair difference</li> </ol>	0

Number	The Name of Item and Sub-item	Hours
AVC07	Recorder Repair	36
AVC073	QAR repair—Practice	12
Number	Training Items	Hours
1	1) Safe application with electrical power and radio frequency protection of maintenance personnel 2) The static electricity discharge protection of avionics accessory 3) Consumption material, application with chemical substances and safety caution notes	2
2	1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format. 2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data. 3) Read and comprehend the latest and effective CMM (or OHM) 4) Read and comprehend the latest and effective job sheet and card as well as other relevant data	4
3	Master the operation of the specific tools and equipment	1
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of QAR	0.5
6	Clean QAR	0.5
7	Check QAR after its break-down	0.5
8	The basic method used to repair QAR	1
9	Assemble the QAR	0.5
10	Test the QAR	1
11	Store and package the QAR	0.5



### AVC08 Entertainment System Repair

Number	The Name of Item and Sub-item		Hours
AVC08	Entertainment System Repair—Theory		20
Number	Knowledge point	Training contents	Hours
1	Basis of Entertainment System repair	1) Basic architecture of Entertainment System 2) Function and basic operation principle of Entertainment System	4
2	Repair the typical Entertainment System	1) The structure, interface and parameter of typical Entertainment System unit 2) Function test of Entertainment System unit and use of testing equipment 3) Entertainment System unit break-down 4) Entertainment System unit cleaning 5) Entertainment System unit check 6) Entertainment System unit repair 7) Entertainment System unit assembly and storage	6
3	Use of maintenance manual and technical file	1) ATA100 specification 2) The types of manuals required for accessory maintenance and brief introduction 3) Use of CMM (or OHM) 4) Use of job sheet and card	4
4	Use of specific tools and equipment	Use of specific tools and equipment	2
5	The safety caution notes of repair	1) Safe application with electrical power and radio frequency protection of maintenance personnel 2) The static electricity discharge protection during avionics accessory repair 3) Consumption material, application with chemical substances and safety caution notes	2
6	Main difference from other typical Entertainment Systems	1) Function difference 2) Repair difference	2

Number	The Name of Item and Sub-item	Hours
AVC08	Entertainment System Repair—Practice	15
Number	Training Items	Hours
1	<ol style="list-style-type: none"> <li>1) Safe application with electrical power and radio frequency protection of maintenance personnel</li> <li>2) The static electricity discharge protection of avionics accessory</li> <li>3) Consumption material, application with chemical substances and safety caution notes</li> </ol>	2
2	<ol style="list-style-type: none"> <li>1) Master the consultation method for the latest and effective CMM (or OHM) in paper format or electrical format.</li> <li>2) Master the consultation method for the latest and effective job sheet and card as well as other relevant data.</li> <li>3) Read and comprehend the latest and effective CMM (or OHM)</li> <li>4) Read and comprehend the latest and effective job sheet and card as well as other relevant data</li> </ol>	4
3	Master the operation of the specific tools and equipment	2
4	Appearance and the check those documents for the overhaul	0.5
5	Break-down of Entertainment System	1
6	Clean Entertainment System	0.5
7	Check Entertainment System after its break-down	0.5
8	The basic method used to repair Entertainment System	1
9	Assemble the Entertainment System	1
10	Test the Entertainment System	2
11	Store and package the Entertainment System	0.5

## Aircraft Electrical Accessory Repair(ELC)

### ELC01Aircraft Electrical Power System Device Repair

Number	The Name of Item and Sub-item		Hours
ELC01	Aircraft Electrical Power System Device Repair		104
ELC011	Generator Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Overview of generator	1) Types of generator 2) Basic operation principle of generator 3) Architecture of generator 4) Function of each generator sub-assembly	4
2	Generator repair	1) Generator break-down, clean and check 2) Generator part and component repair 3) Generator assemble and test 4) Generator storage	9
3	Operation safety and protection	1) Safety and protection of dangerous goods 2) Operation safety and protection 3) Equipment safety 4) Introduction of testing equipment	2
4	Use of maintenance manual and technical file	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
5	Difference	1) Function difference 2) Structure difference	1

Number	The Name of Item and Sub-item	Hours
ELC01	Aircraft Electrical Power System Device Repair	84
ELC011	Generator repair—Practice	16
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify the generator structure and the location of its part and component 3) Generator check before its maintenance 4) Use of specific tool and equipment 5) Repair process	4
3	Generator repair 1) Generator break-down 2) Generator cleaning 3) Generator check 4) Generator part and component repair 5) Generator assembly 6) Generator integrity test 7) Generator storage	8
4	Repair process	2

Number	The Name of Item and Sub-item		Hours
ELC01	Aircraft Electrical Power System Device Repair		104
ELC012	Constant Speed Drive (CSD) Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Overview of CSD	<ol style="list-style-type: none"> <li>1) Types of CSD</li> <li>2) Basic operation principle of CSD</li> <li>3) Architecture of CSD</li> <li>4) Function of each CSD sub-assembly</li> </ol>	4
2	Generator repair	<ol style="list-style-type: none"> <li>1) CSD break-down, clean and check</li> <li>2) CSD part and component repair</li> <li>3) CSD assemble and test</li> <li>4) CSD storage</li> </ol>	10
3	Operation safety and protection	<ol style="list-style-type: none"> <li>1) Safety and protection of dangerous goods</li> <li>2) Operation safety and protection</li> <li>3) Equipment safety</li> <li>4) Introduction of testing equipment</li> </ol>	2
4	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4

Number	The Name of Item and Sub-item	Hours
ELC01	Aircraft Electrical Power System Device Repair	84
ELC012	Constant Speed Drive (CSD) Repair—Practice	16
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify the csd structure and the location of its part and component 3) CSD check before its maintenance 4) Use of specific tool and equipment 5) Repair process	4
3	Generator repair 1) CSD break-down 2) CSD cleaning 3) CSD check 4) CSD part and component repair 5) CSD assembly 6) CSD integrity test 7) CSD storage	8
4	Repair process	2

Number	The Name of Item and Sub-item		Hours
ELC01	Aircraft Electrical Power System Device Repair		104
ELC013	Inverter(Static Inverter)Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of static inverter	1) Composition of static inverter 2) Basic operation principle of static inverter	2
2	Static inverter repair	1) Static inverter break-down, clean and check 2) Failure isolation and repair 3) Static inverter assemble and test 4) Static inverter storage	6
3	Application with specific tool and equipment and the safety caution notes of repair	1) Use of specific tool 2) Use of oscilloscope 3) Use of static inverter testing platform 4) Theory of static electricity discharge protection, application with high-voltage electrical current and safety caution notes 5) Application with chemical substances and safety caution notes	3
4	Use of maintenance manual and technical file	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
5	Main differences of static inverter	1) Function difference 2) Differences of structure principle	1

Number	The Name of Item and Sub-item	Hours
ELC01	Aircraft Electrical Power System Device Repair	84
ELC013	Inverter(Static Inverter)Repair—Practice	12
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and static electricity discharge protection 2) Check static inverter before its maintenance 3) Use of oscilloscope, static inverter testing platforms 4) Repair process	2
3	Static inverter repair Static inverter break-down Static inverter cleaning Static inverter check Static inverter part and component repair Static inverter assembly Static inverter integrity test Static inverter storage	8



Number	The Name of Item and Sub-item		Hours
ELC01	Aircraft Electrical Power System Device Repair		104
ELC014	Electrical Power Control Unit Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of electrical power control unit	1) Composition of electrical power control unit 2) Basic operation principle of electrical power control unit	2
2	Electrical power control unit maintenance	1) Electrical power control unit break-down, clean and check 2) Failure isolation and repair 3) Electrical power control unit assemble and test 4) Electrical power control unit storage	8
3	Operation safety and protection	1) Safety and protection for the use of testing platform 2) Static electricity protection	2
4	Use of maintenance manual and technical file	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4

Number	The Name of Item and Sub-item	Hours
ELC01	Aircraft Electrical Power System Device Repair	84
ELC014	Electrical Power Control Unit Repair—Practice	16
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and static electricity discharge protection 2) Check electrical power control unit before its maintenance 3) Use of oscilloscope, electrical power control unit testing platforms 4) Repair process	2
3	Electrical power control unit repair 1) Electrical power control unit break-down 2) Electrical power control unit cleaning 3) Electrical power control unit check 4) Electrical power control unit part and component repair 5) Electrical power control unit assembly 6) Electrical power control unit integrity test 7) Electrical power control unit storage	12

Number	The Name of Item and Sub-item		Hours
ELC01	Aircraft Electrical Power System Device Repair		104
ELC015	Contactor, Transformer Rectifier Repair—Theory		16
Number	Knowledge point	Training contents	Hours
1	Overview of contactor, transformer rectifier	<ol style="list-style-type: none"> <li>1) Composition of contactor, transformer rectifier</li> <li>2) Basic operation principle of contactor, transformer rectifier</li> </ol>	2
2	Contactor, transformer rectifier repair	<ol style="list-style-type: none"> <li>1) Contactor, transformer rectifier break-down, clean, check</li> <li>2) Contactor, transformer rectifier part repair</li> <li>3) Contactor, transformer rectifier assembly</li> <li>4) Contactor tolerance and coordination</li> <li>5) Contactor, transformer rectifier test</li> <li>6) Contactor, transformer rectifier storage</li> </ol>	8
3	Operation safety and protection	<ol style="list-style-type: none"> <li>1) Safety and protection for the use of testing platform</li> <li>2) Static electricity protection</li> </ol>	2
4	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4

Number	The Name of Item and Sub-item	Hours
ELC01	Aircraft Electrical Power System Device Repair	84
ELC015	Contactora, Transformer Rectifier Repair—Practice	12
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify contactora, transformer rectifier structures 3) Check contactora, transformer rectifier before its maintenance 4) Apply with specific equipment 5) Repair process	2
3	Contactora, transformer rectifier repair 1) Contactora, transformer rectifier break-down 2) Contactora, transformer rectifier cleaning 3) Contactora, transformer rectifier check 4) Contactora, transformer rectifier part and component repair 5) Contactora, transformer rectifier assembly 6) Contactora, transformer rectifier test 7) Contactora, transformer rectifier storage	8

Number	The Name of Item and Sub-item		Hours
ELC01	Aircraft Electrical Power System Device Repair		104
ELC016	Various Control Switch Panels Units Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of control switch panel unit	<ol style="list-style-type: none"> <li>1) Composition of control switch panel unit</li> <li>2) Basic operation principle of control switch panel unit</li> </ol>	2
2	Control switch panel unit maintenance	<ol style="list-style-type: none"> <li>1) Control switch panel unit break-down, clean and check</li> <li>2) Failure isolation and repair</li> <li>3) Control switch panel unit assemble and test</li> <li>4) Control switch panel unit storage</li> </ol>	8
3	Operation safety and protection	<ol style="list-style-type: none"> <li>1) Safety and protection for the use of testing platform</li> <li>2) Static electricity protection</li> </ol>	2
4	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4

Number	The Name of Item and Sub-item	Hours
ELC01	Aircraft Electrical Power System Device Repair	84
ELC016	Various Control Switch Panels Units Repair—Practice	12
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify the composition of control switch panels unit 3) Check control switch panels unit before its maintenance	2
3	Control switch panel unit repair 1) Control switch panel unit break-down 2) Control switch panel unit cleaning 3) Control switch panel unit check 4) Control switch panel unit part and component repair 5) Control switch panel unit assembly 6) Control switch panel unit test 7) Control switch panel unit storage	8

## ELC02 Electrical Motor Repair

Number	The Name of Item and Sub-item		Hours
ELC02	Electrical motor Repair—Theory		20
Number	Knowledge Point	Training Contents	Hours
1	Overview of electrical motor	1) Basic architecture of AC and DC motor 2) Operation principle of AC and DC motor	2
2	Electrical motor maintenance	1) Electrical motor break-down, clean and check 2) Failure isolation and repair 3) Electrical motor assemble and test 4) Electrical motor storage	8
3	Operation safety and protection , use of specific tool, measurement tool and equipment	1) Safety and protection of dangerous goods 2) Operation safety and protection, equipment safety 3) Application with specific tools, equipment and measurement device 4) Use of testing platform	4
4	Use of maintenance manual and technical file	1) The types of manuals required for accessory maintenance 2) ATA100 specification 3) CMM manual and OHM manual 4) Aviation supplies part number system	4
5	Main differences from other typical electrical motors	Function, structure difference	2

Number	The Name of Item and Sub-item	Hours
ELC02	Electrical motor Repair—Practice	20
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify the electronic motor composition 3) Check electrical motor before its maintenance 4) Use of specific tool and equipment 5) Repair process	4
3	Electrical motor Repair 1) Electrical motor break-down 2) Electrical motor cleaning 3) Electrical motor check 4) Electrical motor part and component repair 5) Electrical motor assembly 6) Electrical motor test 7) Electrical motor storage	12
4	Repair process	2



Number	The Name of Item and Sub-item		Hours
ELC03	Battery Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of aviation battery	<ol style="list-style-type: none"> <li>1) Types of aviation battery</li> <li>2) Basic composition and operation principle of aviation battery</li> <li>3) Common recharge method for battery</li> </ol>	2
2	Acid, alkaline battery maintenance	<ol style="list-style-type: none"> <li>1) Voltages of acid, alkaline battery and their recharge and charge characteristics</li> <li>2) Acid, alkaline battery maintenance and keep in good repair</li> <li>3) Acid, alkaline battery recharge and electrolyte adjustment</li> <li>4) Acid, alkaline battery capacity test and deep discharge</li> <li>5) Alkaline battery's air outlet valve/temperature control unit/insulation test</li> <li>6) Alkaline battery break-down, cleaning , assemble and test</li> <li>7) Acid, alkaline battery storage</li> <li>8) Maintenance with emergency battery</li> </ol>	8
3	Operation safety and protection , use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Safety and protection of dangerous goods</li> <li>2) Operation safety and protection, equipment safety</li> <li>3) Use of specific tool, equipment and measurement device</li> <li>4) Use of testing equipment</li> </ol>	2
4	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4

Number	The Name of Item and Sub-item	Hours
ELC03	Battery Repair—Practice	12
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify the battery composition 3) Check battery before its maintenance 4) Use of specific tool and equipment	2
3	Battery repair 1) Battery break-down 2) Battery cleaning 3) Battery check 4) Battery assemble 5) Battery test 6) Battery storage	8

### ELC04 Airborne Electrical Appliance and Accessory Repair

Number	The Name of Item and Sub-item		Hours
ELC04	Airborne Electrical Appliance and Accessory Repair		56
ELC041	Galley Equipment Repair—Theory		16
Number	Knowledge Point	Training Contents	Hours
1	Overview of galley equipment	<ol style="list-style-type: none"> <li>1) Types of galley equipment</li> <li>2) Basic operation principle of galley equipment</li> </ol>	2
2	Galley equipment repair	<ol style="list-style-type: none"> <li>1) Galley equipment break-down, clean and check</li> <li>2) Failure isolation and repair</li> <li>3) Galley equipment assemble and test</li> <li>4) Galley equipment storage</li> </ol>	8
3	Operation safety and protection , use of specific tool, measurement tool and equipment	<ol style="list-style-type: none"> <li>1) Safety and protection of dangerous goods</li> <li>2) Operation safety and protection, equipment safety</li> <li>3) Use of specific tool, equipment and measurement device</li> <li>4) Use of testing equipment</li> </ol>	2
4	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4

Number	The Name of Item and Sub-item	Hours
ELC04	Airborne Electrical Appliance and Accessory Repair	48
ELC041	Galley Equipment Repair—Practice	12
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify the galley equipment composition 3) Check galley equipment before its maintenance 4) Use of specific tool and equipment	2
3	Battery repair 1) Galley equipment break-down 2) Galley equipment cleaning 3) Galley equipment check 4) Galley equipment assemble 5) Galley equipment test 6) Galley equipment storage	8

Number	The Name of Item and Sub-item		Hours
ELC04	Airborne Electrical Appliance and Accessory Repair		56
ELC042	Illumination (Light) Equipment Repair—Theory		16
Number	Knowledge Point		Hours
1	Overview of illumination (light) equipment	<ol style="list-style-type: none"> <li>1) Types of illumination (light) equipment</li> <li>2) Typical architecture of illumination (light) equipment</li> <li>3) Operation principle of illumination (light) equipment</li> </ol>	2
2	Illumination (light) equipment repair	<ol style="list-style-type: none"> <li>1) Illumination (light) equipment break-down, cleaning, check</li> <li>2) Illumination (light) equipment part repair</li> <li>3) Illumination (light) equipment assemble and test</li> <li>4) Illumination (light) equipment storage</li> </ol>	8
3	Use of specific tool, measurement tool and equipment, the safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Use of specific tools and measurement devices</li> <li>2) Use of illumination (light) equipment testing platform</li> <li>3) Static electricity protection and high-voltage electricity protection</li> <li>4) Application with chemical substances and safety caution notes</li> </ol>	2
4	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4

Number	The Name of Item and Sub-item	Hours
ELC04	Airborne Electrical Appliance and Accessory Repair	48
ELC042	Illumination (Light) Equipment Repair—Practice	12
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify the illumination (light) equipment composition 3) Check illumination (light) equipment before its maintenance 4) Use of specific tool and equipment	2
3	Illumination (light) equipment repair 1) Illumination (light) equipment break-down 2) Illumination (light) equipment cleaning 3) Illumination (light) equipment check 4) Illumination (light) equipment assemble 5) Illumination (light) equipment test 6) Illumination (light) equipment storage	8

Number	The Name of Item and Sub-item		Hours
ELC04	Airborne Electrical Appliance and Accessory Repair		56
ELC043	Electrical Appliance Accessory Repair(Cable, Switch, Control Panel, Fire Warning Wire, Controller, Detector Unit)—Theory		24
Number	Knowledge point	Training contents	Hours
1	Overview of electrical appliance accessory	<ol style="list-style-type: none"> <li>1) Types of electrical appliance accessory</li> <li>2) Typical architecture of electrical appliance accessory</li> <li>3) Operation principle of electrical appliance accessory</li> </ol>	4
2	Electrical appliance accessory repair	<ol style="list-style-type: none"> <li>1) Electrical appliance accessory break-down ,cleaning, check</li> <li>2) Electrical appliance accessory repair</li> <li>3) Electrical appliance accessory assemble and test</li> <li>4) Electrical appliance accessory storage</li> </ol>	12
3	Use of specific tool, measurement tool and equipment, the safety caution notes of repair	<ol style="list-style-type: none"> <li>1) Use of specific tools, measurement device</li> <li>2) Use of electrical appliance accessory testing platform</li> <li>3) Static electricity protection</li> <li>4) Application with chemical substances and safety caution notes</li> </ol>	4
4	Use of maintenance manual and technical file	<ol style="list-style-type: none"> <li>1) The types of manuals required for accessory maintenance</li> <li>2) ATA100 specification</li> <li>3) CMM manual and OHM manual</li> <li>4) Aviation supplies part number system</li> </ol>	4

Number	The Name of Item and Sub-item	Hours
ELC04	Airborne electrical device and accessory repair	48
ELC043	Electrical Appliance Accessory Repair (Cable, Switch, Control Panel, Fire Warning Wire, Controller, Detector Unit)—Practice	24
Number	Training Items	Hours
1	Use of relevant maintenance manual and technical file 1) Various maintenance manuals and relevant technical files (CMM, OHM, etc) 2) Aviation supplies part number system 3) Job card and maintenance record	2
2	Production preparation 1) Safe production and individual protection 2) Identify the composition of electrical appliance accessory 3) Check electrical appliance accessory before its maintenance 4) Use of specific tool and equipment 5) Static discharge protection	4
3	Electrical appliance accessory repair 1) Electrical appliance accessory break-down 2) Electrical appliance accessory cleaning 3) Electrical appliance accessory check 4) Electrical appliance accessory assemble 5) Electrical appliance accessory test 6) Electrical appliance accessory storage	18