List of Competencies for On-the-Job Training (OJT)
Work-Study Diploma in Aircraft Engine Maintenance

Applicants applying for this course must be free from colour appreciation deficiency. A score of 100% from the **Colour Blindness Test** is mandatory for course admission.

Note: LOC is subject to changes due to curriculum review/ development

S/N	List of Competencies (Standard)	Company to indicate '✓' for OJT competencies it can provide
	Common Competencies (min 6 competencies)	
1	Inspect aircraft engine parts and components	☐
2	Perform chemical and mechanical cleaning on engine parts and components	☐
3	Perform measurement on aircraft engine parts and components	☐
4	Handle aircraft engine received from customer	☐
5	Disassemble aircraft engine	☐
6	Assemble aircraft engine	☐
7	Dispatch aircraft engine to customer	☐
8	Set up automated system for maintenance of aircraft engine parts and components	☐
9	Perform automated operations on engine parts and components	☐
	Compulsory to select ONE or more of the four specialisations	
	Non-Destructive Testing Specialisation (min 3 competencies)	
10	Perform fluorescent penetrant testing	☐
11	Perform eddy current testing	☐
12	Perform ultrasonic testing	☐
13	Perform magnetic particle inspection	☐
	Engine Repair Specialisation (min 2 competencies)	
14	Repair aircraft engine sheet metal structure	☐
15	Repair aircraft engine composite material components	☐
16	Perform surface protection on engine parts and components	☐
	Machining & Hot Work Specialisation (min 2 competencies)	
17	Perform machining on engine parts and components	☐
18	Perform tungsten inert gas (TIG) welding	☐
19	Perform hot processes on engine parts and components	☐
	Electrical Specification (min 2 competencies)	
20	Inspect aircraft engine electrical system	☐
21	Perform aircraft engine electrical system maintenance	☐

S/N	List of Competencies (Standard)	Company to indicate '✓' for OJT competencies it can provide
22	Prepare aircraft engine electrical components for repair	☐
	Sub – total of Competencies (Standard)	0
List of Competencies (Company-specific)		
1		
2		
3		
4		
	Sub-total of Competencies (Company-specific)	0

* The company is required to select one or more specialisations for the OJT module, with a minimum total number of 12 competencies. If the company cannot provide the full 12 competencies, including those from chosen specialisation(s), they have the option to select additional competencies from other specialisations or supplement them with their own company-specific competencies.

Note: Competencies proposed by company must be endorsed by ITE.

Total no. of competencies selected by company for OJT | 0

Completed By:

_____ _____

Name **Company**

MODULE SYNOPSIS – WSDip in Aircraft Engine Maintenance

Course Objective

The course aims to equip trainees with the skills, knowledge and professional attributes to perform aircraft engine maintenance, visual inspection and non-destructive testing of aircraft parts and components, as well as maintaining safe work practices at the worksite.

Modules Synopsis

Aircraft Engine Structure Maintenance
On completion of this module, trainees should be able to repair sheet metal structure and aircraft engine composite material components as well as performing tungsten inert gas (TIG) welding to repair component defects.
Aircraft Engine Components Inspection
On completion of this module, trainees should be able inspect aircraft engine parts and components, perform chemical and mechanical cleaning on engine parts and components, and perform measurements on aircraft engine parts and components.
Aircraft Engine Electrical System Maintenance
On completion of this module, trainees should be able to inspect aircraft engine electrical system, perform aircraft engine electrical system maintenance and prepare aircraft engine electrical components for OEM repair in accordance with statutory and organisational requirements.
Non-Destructive Testing
On completion of this module, trainees should be able to perform various non-destructive testing (NDT) methods to detect defects in aircraft engine parts and components.
Aircraft Engine Maintenance Operation
On completion of this module, trainees should be able to handle aircraft engine received from customer, disassemble and assemble modules and parts of aircraft engine, and dispatch serviced aircraft engine to customer.
Aircraft Engine Component Repair Operations
On completion of this module, trainees should be able to perform machining, surface protection and hot processes such as heat treatment, fluorocarbon cleaning, vapour aluminising to repair engine parts and components.
Aircraft Engine Maintenance & Automation
On completion of this module, trainees should be able to set up and perform automated operations on aircraft engine parts and components.
Company Project
On completion of the module, trainees should have applied their acquired competencies in an authentic project that would value-add to the company.

TRAINING PATTERN SCHEDULE

WSDip in Aircraft Engine Maintenance

Block Release - Trainees attend daily lessons at ITE for a continuous period and then resume the next block of OJT at the workplace.

April'26 Intake	April – June 2026		July – September 2026		October – December 2026		January – March 2027	
1st Year Off-JT @ ITE	9 weeks block OJT at Company	ITE Vacation (June) 4 weeks	OJT at Company	ITE Vacation (Sept) 2 weeks	OJT at Company	ITE Vacation (Dec) 4 weeks	OJT at Company	ITE Vacation (March) 2 weeks
April'26 Intake	**April – June 2027**		**July – September 2027**		**October – December 2027**		**January – March 2028**	
2nd Year Off-JT @ ITE	OJT at Company	ITE Vacation (June) 4 weeks	OJT at Company	ITE Vacation (Sept) 2 weeks	OJT at Company	ITE Vacation (Dec) 4 weeks	5 weeks block OJT at Company	ITE Vacation (March) 2 weeks
April'26 Intake	**April – June 2028**		**July – September 2028**		**WSDip Programme 2026 Start: 1 April 2026 End: 30 September 2028 Duration: 2.5 years Final results release may be later than programme end date**			
3rd Year Off-JT @ ITE	OJT at Company	ITE Vacation (June) 4 weeks	2 weeks block OJT at Company	ITE Vacation (Sept) 2 weeks				

**WSDip Programme 2026
Start: 1 April 2026
End: 30 September 2028
Duration: 2.5 years
Final results release may be later than programme end date**