List of Competencies for On-the-Job Training (OJT)
Work-Study Diploma in Aircraft Maintenance Engineering
(Aircraft Propulsion/ Aircraft System/ Avionics)

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
1	Perform aircraft departure and arrival procedures	☐
2	Perform aircraft general maintenance	☐
3	Perform aircraft system servicing	☐
4	Analyse reliability studies in aircraft maintenance operations	☐
5	Perform tasks and manpower scheduling in aircraft maintenance operations	☐
6	Plan for ground support and spares availability for aircraft maintenance operations	☐
7	Determine root cause in work process challenges	☐
8	Derive viable solution	☐
9	Implement viable solution	☐
10	Evaluate solution for future enhancement	☐
11	Analyse aircraft maintenance processes and operations	☐
12	Perform continuous improvement in aircraft maintenance processes and operations	☐
13	Implement approved quality management system in aircraft maintenance records	☐
14	Execute risk analysis in aircraft maintenance operations	☐
Select one of the following specialisation:		
***Specialisation A: Aircraft Propulsion**		
Aircraft Propulsion (Minimum three competencies must be selected)		
15A	Perform periodic aircraft engine maintenance	☐
16A	Perform aircraft engine removal	☐
17A	Perform aircraft engine installation	☐
18A	Perform removal and installation of aircraft engine component(s)	☐
Or *Specialisation B: Aircraft System		
Aircraft System (Minimum three competencies must be selected)		
15B	Perform maintenance tasks on aircraft flight control system	☐
16B	Perform maintenance tasks on aircraft hydraulic system	☐

S/N	List of Competencies (Standard)	Company to indicate '✓' for OJT competencies it can provide
17B	Perform maintenance tasks on aircraft fuel system	☐
18B	Perform maintenance tasks on aircraft auxiliary systems	☐
Or *Specialisation C: Avionics		
Avionics (Minimum three competencies must be selected)		
15C	Perform wiring integrity checks and wire repair on aircraft electrical and avionics systems	☐
16C	Perform rectification of aircraft electrical system faults	☐
17C	Perform rectification of aircraft communication system faults	☐
18C	Perform rectification of aircraft navigation system faults	☐
List of Competencies (Company-specific)		
1		
2		
3		
4		
5		
6		
7		
8		
	Sub-total of Competencies (Company-specific)	0

*Company may select either Specialisation A, Specialisation B or Specialisation C

Note:

a) Company must be able to provide OJT for at least **75%** of the List of Competencies (Standard).

b) If company is unable to meet the 75%, please propose alternate **course-related** competencies which are unique to company operations. Alternate competencies are capped at 25%.
[i.e. 50% of the list of competencies (standard) + 25% alternate competencies (Company-specific)].

c) All alternate competencies (Company-specific) must be reviewed and endorsed by ITE.

d) Trainees must receive OJT and be assessed for **All** competencies selected in this List.

	Specialisation A			Specialisation B			Specialisation C		
	Standard	Company-Specific	Total	Standard	Company-Specific	Total	Standard	Company-Specific	Total
Total no. of competencies selected by company for OJT	0	0	0	0	0	0	0	0	0
Total no. of competencies listed (standard & company specific)	18			18			18		
Percentage of selected competencies	0%	0%	0%	0%	0%	0%	0%	0%	0%

Completed By:

Name **Company**

MODULE SYNOPSIS – WSDip in Aircraft Maintenance Engineering

Course Objective

This course equips trainees with skills, knowledge and professional attributes to inspect, troubleshoot, maintain and repair aircraft structure, systems (mechanical, electrical and avionics) and associated components using appropriate methods and techniques in accordance with approved procedures and regulations to ensure airworthiness of aircraft.

Modules Synopsis

Aircraft Line Maintenance
On completion of the module, trainees should be able to perform aircraft departure and arrival procedures, aircraft general maintenance and aircraft system servicing with compliance to organisation engineering order and aircraft maintenance manual.
Aircraft Maintenance Planning
On completion of the module, trainees should be able to integrate reliability studies in aircraft maintenance planning for the scheduling of tasks and manpower as well as ground support and spares provision in aircraft maintenance operations.
Electrical & Avionics Systems Maintenance
On completion of the module, trainees should be able to maintain, rectify and replace aircraft electrical and avionics components via first line troubleshooting of aircraft electrical, communication and navigation systems.
Aircraft Systems Maintenance
On completion of the module, trainees should be able to replace components, service and maintain aircraft mechanical systems via first-line inspection and troubleshooting of aircraft flight control, hydraulic, fuel, pneumatic and auxiliary systems.
Lean Processes
On completion of the module, trainees should be able to infuse lean processes into aircraft maintenance operations, analyse and improve efficiency in maintenance workflow and error/deficiency management.
Quality & Safety Management
On completion of the module, trainees should be able to integrate safety and quality management into aircraft maintenance operations for documentations compliance and risk analysis.
Gas Turbine Engine Maintenance
On completion of the module, trainees should be able to replace, service, troubleshoot, inspect, and maintain aircraft gas turbine engines and related components at the flight line.
Work Improvement Management
On completion of the module, trainees should be able to systematically identify problems, derive, implement, and evaluate viable solutions to solve work process challenges or improve efficiency.

MODULE SYNOPSIS - WSDip in Aircraft Maintenance Engineering

On-the-Job Training
On completion of the module, trainees should be able to apply the skills and knowledge acquired at ITE College and workplace to take on the full job scope, including supervisory function, where appropriate, at the company.

TRAINING PATTERN SCHEDULE

WSDip in Aircraft Maintenance Engineering

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	ITE Vacation (June) 4 weeks	July – September 2026	ITE Vacation (Sept) 2 weeks	October – December 2026	ITE Vacation (Dec) 4 weeks	January – March 2027	ITE Vacation (March) 2 weeks
1st Year Off-JT @ ITE	**Company OJT**		**8 Weeks Block** **Company OJT**		**Company OJT**		**Company OJT**	

April'26 Intake	April – June 2027	ITE Vacation (June) 4 weeks	July – September 2027	ITE Vacation (Sept) 2 weeks	October – December 2027	ITE Vacation (Dec) 4 weeks	October – December 2028	ITE Vacation (March) 2 weeks
2nd Year Off-JT @ ITE	**Company OJT**		**Company OJT**		**8 Weeks Block** **Company OJT**		**Company OJT**	

April'26 Intake	April – June 2028	ITE Vacation (June) 4 weeks	July – September 2028	ITE Vacation (Sept) 2 weeks	
3rd Year Off-JT @ ITE	**3 Weeks Block** **Company OJT**		**Company OJT**		**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**