

WORK-STUDY DIPLOMA IN AIRCRAFT MAINTENANCE ENGINEERING

MODULE OBJECTIVES

Module 1: Aircraft Line Maintenance

On completion of the module, trainees should be able to perform essential aircraft flight line maintenance procedures, including aircraft launch and recovery operations, first-line inspections on aircraft structures, aircraft repositioning, jacking, lowering and aircraft routine servicing.

Module 2: 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.

Module 3: 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.

Module 4: 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.

Module 5: 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.

Module 6: 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.

Module 7: 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.

Module 8: 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 9: 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.

Module 10: 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.