

NITEC IN AEROSPACE AVIONICS

Core Modules

Aircraft General Maintenance

On completion of the module, students should be able to perform aircraft general maintenance such as fastening, wire-locking, sealant application, general corrosion control and plumbing; interpret aircraft blueprint drawings, aircraft manuals and catalogues.

Human Factors and Air Legislation

On completion of the module, students should be able to carry out Workplace, Safety and Health concepts in aircraft maintenance works and to prevent and minimise human-factor related errors in aircraft maintenance, update maintenance records and documentation and to apply the regulatory framework of local air transport operations and governing system adopted by Civil Aviation Authority of Singapore.

Aircraft Electrical and Electronics Systems

On completion of the module, students should be able service, maintain and troubleshoot different types of aircraft electrical system and devices.

Aircraft Instrumentation System

On completion of the module, students should be able service, maintain and troubleshoot aircraft instrumentation system.

Aircraft Materials and Structures

On completion of the module, students should be able to repair minor surface aircraft structure defects and apply basic Aerodynamic and Theory of Flight.

Aircraft Communication and Navigation Systems

On completion of the module, students should be able to service, maintain and troubleshoot aircraft communication and navigation systems.

Aircraft Maintenance Practice

Students will undergo a 6-month On-the-Job Training (OJT) course with aerospace industry to reinforce the skills and knowledge acquired at the training institute and to develop competencies in other specialised areas.