

4.0 Qualification specific information

Pathway 1 - Aircraft Manufacture Mechanical SAEEA

Learner's must complete the four Mandatory assessment routes below plus four optional assessment routes (a total of eight units)

Mandatory: All four mandatory assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/001A	Complying with statutory regulations and organisational safety requirements	5	5
SAEE3/002A	Using and interpreting engineering data and documentation	5	5
SAEE3/003A	Working efficiently and effectively in engineering	5	5
SAEE3/004A	Reinstating the work area on completion of activities	5	5

Four optional assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/005A	Marking out composite and/or metallic aircraft components	6	50
SAEE3/008A	Installing aircraft mechanical fasteners into composite and/or metallic components	6	56
SAEE3/010A	Producing composite and/or metallic aircraft sub-assemblies	6	57
SAEE3/011A	Producing composite and/or metallic aircraft major assemblies	6	59
SAEE3/013A	Repairing airframes and structures	6	57
SAEE3/026A	Producing aircraft composite assemblies	6	58
SAEE3/039A	Drilling and finishing holes in composite and/or metallic aircraft structures or components	6	58
SAEE3/093A	Applying finishes to composite mouldings	6	55
SAEE3/202A	Producing composite mouldings using pre-preg laminating techniques	6	59
SAEE3/203A	Producing composite mouldings using wet lay up laminating techniques	6	60
SAEE3/204A	Producing composite mouldings using resin flow infusion techniques	6	58
SAEE3/205A	Trimming composite mouldings using hand tools	6	44
SAEE3/206A	Identifying defects in composite mouldings	6	44

SAEE3/207A	Repairing composite mouldings	6	44
SAEE3/208A	Bonding composite mouldings	6	60
SAEE3/350A	Producing composite mouldings using resin film infusion techniques	6	59
SAEE3/351A	Using curing and consolidation equipment for composite mouldings	6	57
SAEE3/352A	Producing composite assemblies	6	55
SAEE3/353A	Installing composite mouldings	6	55

Pathway 2 - Aircraft Power Plant SAEEB

Learner's must complete the four Mandatory assessment routes below plus two optional assessment routes (a total of six units)

Mandatory: All four mandatory assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/001A	Complying with statutory regulations and organisational safety requirements	5	5
SAEE3/002A	Using and interpreting engineering data and documentation	5	5
SAEE3/003A	Working efficiently and effectively in engineering	5	5
SAEE3/004A	Reinstating the work area on completion of activities	5	5

Two optional assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/031A	Producing aircraft engine compressor assemblies	6	56
SAEE3/032A	Producing aircraft engine combustion assemblies	6	56
SAEE3/033A	Producing aircraft engine turbine assemblies	6	59
SAEE3/034A	Producing aircraft engine gearbox assemblies	6	56
SAEE3/036A	Producing aircraft engine major assemblies	6	56
SAEE3/037A	Dressing aircraft engines	6	55
SAEE3/354A	Repairing and modifying mechanical assemblies	6	52
SAEE3/161A	Carrying out test bed runs on aircraft engines (uninstalled)	6	46
SAEE3/162A	Overhauling aircraft gas turbine engines by module replacement	6	79
SAEE3/163A	Overhauling aircraft gas turbine engine compressor assemblies	6	72
SAEE3/164A	Overhauling aircraft gas turbine engine combustion assemblies	6	77
SAEE3/165A	Overhauling aircraft gas turbine engine turbine assemblies	6	77
SAEE3/166A	Overhauling aircraft gas turbine engine gearbox assemblies	6	73
SAEE3/212A	Dismantling aircraft gas turbine engines to module/unit level	6	58
SAEE3/213A	Rebuilding aircraft gas turbine engine assemblies after overhaul	6	57

Pathway 3 - Aircraft Maintenance SAEEC

Learner's must complete the four mandatory assessment routes below plus six optional assessment routes - Two optional assessment routes from Group A, and four optional assessment routes from Group B (a total of ten units)

Mandatory: All four Mandatory assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/001A	Complying with statutory regulations and organisational safety requirements	5	5
SAEE3/002A	Using and interpreting engineering data and documentation	5	5
SAEE3/003A	Working efficiently and effectively in engineering	5	5
SAEE3/004A	Reinstating the work area on completion of activities	5	5

Group A

Two optional assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/120A	Carrying out fault diagnosis on aircraft avionics components or systems	6	69
SAEE3/121A	Undertaking scheduled maintenance of aircraft avionics equipment/systems	6	56
SAEE3/141A	Carrying out fault diagnosis on aircraft airframe, mechanical components and systems	6	70
SAEE3/142A	Undertaking scheduled maintenance of aircraft airframe and mechanical equipment	6	65
SAEE3/301A	Lifting and trestling/shoring aircraft for maintenance/repair operations	6	44
SAEE3/302A	Levelling and weighing aircraft	6	44
SAEE3/303A	Towing, marshalling and parking aircraft	6	43
SAEE3/304A	Carrying out flight servicing and routine maintenance of aircraft	6	51

Group B**Four optional assessment routes must be completed**

EAL code	Assessment route title	Level	Credit Value
SAEE3/013A	Repairing airframes and structures	6	57
SAEE3/126A	Removing and replacing components of aircraft communication systems	6	71
SAEE3/131A	Removing and replacing components of aircraft internal and external lighting systems	6	71
SAEE3/135A	Carrying out tests on aircraft pitot static systems	6	46
SAEE3/140A	Carrying out tests on aircraft flight guidance and control systems	6	46
SAEE3/143A	Removing and replacing aircraft power plant and components	6	79
SAEE3/145A	Removing and replacing components of aircraft fuel and lubrication systems	6	79
SAEE3/146A	Removing and replacing components of aircraft hydraulic systems	6	79
SAEE3/148A	Removing and replacing components of aircraft environmental systems	6	79
SAEE3/149A	Removing and replacing components of aircraft power transmission systems	6	78
SAEE3/153A	Carrying out tests on aircraft engines and systems	6	53
SAEE3/154A	Carrying out tests on aircraft control systems	6	52
SAEE3/155A	Carrying out tests on aircraft fuel and storage systems	6	44
SAEE3/156A	Carrying out tests on aircraft hydraulic systems	6	52
SAEE3/158A	Carrying out tests on aircraft environmental systems	6	46
SAEE3/159A	Carrying out tests on aircraft power transmission systems	6	52
SAEE3/161A	Carrying out test bed runs on aircraft engines (uninstalled)	6	46
SAEE3/308A	Maintaining electrical power systems on aircraft	6	49
SAEE3/311A	Maintaining flight control systems on aircraft	6	45
SAEE3/314A	Maintaining ice and rain protection systems on aircraft	6	46
SAEE3/331A	Maintaining propeller/propulsor systems on aircraft	6	47

Pathway 4 - Aircraft Mechanical Component Overhaul SAEEED

Learner's must complete the four Mandatory assessment routes below plus one optional assessment route (a total of five units)

Mandatory: All four mandatory assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/001A	Complying with statutory regulations and organisational safety requirements	5	5
SAEE3/002A	Using and interpreting engineering data and documentation	5	5
SAEE3/003A	Working efficiently and effectively in engineering	5	5
SAEE3/004A	Reinstating the work area on completion of activities	5	5

One optional assessment route must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/168A	Overhauling components of aircraft rotor heads, blades and power transmission equipment	6	65
SAEE3/169A	Overhauling components of aircraft hydraulic equipment	6	62

Pathway 5 - Aircraft Technical Design and Development SAEEE

Learner's must complete the four Mandatory assessment routes below plus six optional assessment routes - Two assessment routes from option Group A and four assessment routes from option Group B (a total of ten units)

Mandatory: All four mandatory assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/001A	Complying with statutory regulations and organisational safety requirements	5	5
SAEE3/002A	Using and interpreting engineering data and documentation	5	5
SAEE3/003A	Working efficiently and effectively in engineering	5	5
SAEE3/004A	Reinstating the work area on completion of activities	5	5

Group A

Two optional assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/183A	Producing aeronautical electrical engineering drawings using computer aided techniques	6	48
SAEE3/184A	Producing aeronautical electronic engineering drawings using computer aided techniques	6	48
SAEE3/185A	Producing aeronautical mechanical engineering drawings using computer aided techniques	6	48
SAEE3/186A	Producing aeronautical engineering drawings/models using 3D computer aided techniques	6	50

Group B

Four optional assessment routes must be completed

EAL code	Assessment route title	Level	Credit Value
SAEE3/188A	Monitoring aeronautical engineering activities	6	69
SAEE3/189A	Planning aeronautical engineering activities	6	70
SAEE3/190A	Producing technical details for aeronautical engineering activities	6	49
SAEE3/191A	Obtaining resources for aeronautical engineering activities	6	52
SAEE3/192A	Implementing aeronautical engineering activities	6	68
SAEE3/195A	Providing technical guidance on aeronautical engineering activities	6	46