

Nitec in Aerospace Technology

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Specialisation / Option: Aircraft Structural Maintenance

6 month IA Duration

AM3110FPE-1

1. Select approved aircraft standard parts for replacement/repair
2. Prepare appropriate tool and equipment for aircraft general maintenance
3. Install and remove safety locking and fastening devices on aircraft components
4. Perform general corrosion control
5. Install rigid and flexible fluid lines and fittings
6. Perform aircraft equipment operation (ground, support & lifting equipment)
7. Perform sealant works on metal joints
8. Interpret aircraft drawing (e.g. Detail, Schematic, Exploded and Assembly drawings)
9. Perform freehand sketches
10. Interpret aircraft manuals and catalogue (AMM, IPC, SRM, WDM, CMM)
11. Repair minor surface defects
12. Perform pattern development on sheet metal
13. Cut sheet metal
14. Form sheet metal
15. Fabricate simple form blocks
16. Repair sheet metal structures
17. Repair aircraft composite structure and parts components
18. Perform cold bonding
19. Perform hot bonding

20. Repair fibre-glass material components
21. Perform inspection and basic repair of cabin interiors
22. Perform riveting on sheetmetal
23. Blast sheet metal
24. Maintain safety and health of the individual
25. Perform environment checks at aviation work site (including work at height)
26. Recognise human factor (including HIRA)
27. Maintain aircraft maintenance documented information

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Specialisation / Option: Airframe & Line Maintenance

6 month IA Duration

AM3110FPE-2

1. Select approved aircraft standard parts for replacement/repair
2. Prepare appropriate tool and equipment for aircraft general maintenance
3. Install and remove safety locking and fastening devices on aircraft components
4. Perform general corrosion control
5. Install rigid and flexible fluid lines and fittings
6. Perform aircraft equipment operation (ground, support & lifting equipment)
7. Perform sealant works on metal joints
8. Interpret aircraft drawing (e.g. Detail, Schematic, Exploded and Assembly drawings)
9. Perform freehand sketches
10. Interpret aircraft manuals and catalogue (AMM, IPC, SRM, WDM, CMM)
11. Maintain safety and health of the individual

12. Perform environment checks at aviation work site (including work at height)
13. Recognise human factor (including HIRA)
14. Maintain aircraft maintenance documented information
15. Perform general maintenance and lubricating on aircraft components
16. Perform cleaning on aircraft components and engine
17. Remove and install aircraft components
18. Assist in aircraft towing
19. Perform aircraft jacking
20. Perform visual inspection on aircraft structural for defects and damages
21. Maintain aircraft/helicopter hydraulic system
22. Maintain aircraft/helicopter pneumatic system
23. Maintain aircraft flight control surfaces and its associated components
24. Assist in maintaining aircraft flight control system
(e.g. Rigging, Functional Checks and Testing)
25. Maintain aircraft/helicopter fuel system
26. Maintain aircraft/helicopter environment control system
27. Maintain aircraft/helicopter landing gear system
28. Maintain emergency equipment
29. Maintain fire protection system

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Specialisation / Option: Aircraft Engine Maintenance

6 month IA Duration

AM3110FPE-3

1. Select approved aircraft standard parts for replacement/repair

2. Prepare appropriate tool and equipment for aircraft general maintenance
3. Install and remove safety locking and fastening devices on aircraft components
4. Perform general corrosion control
5. Install rigid and flexible fluid lines and fittings
6. Perform aircraft equipment operation (ground, support & lifting equipment)
7. Perform sealant works on metal joints
8. Interpret aircraft drawing (e.g. Detail, Schematic, Exploded and Assembly drawings)
9. Perform freehand sketches
10. Interpret aircraft manuals and catalogue (AMM, IPC, SRM, WDM, CMM)
11. Inspect aircraft electrical wiring and wiring accessories
12. Handle electrostatic discharge sensitive (ESDS) devices
13. Strip and terminate electrical wires to connectors
14. Perform soldering of electrical accessories or electronic components
15. Handle fibre-optic cables and its accessories
16. Maintain safety and health of the individual
17. Perform environment checks at aviation work site (including work at height)
18. Recognise human factor (including HIRA)
19. Maintain aircraft maintenance documented information
20. Assist in rigging and trimming of aircraft engine
21. Perform maintenance and periodic inspection on aircraft engine and line replaceable units (LRUs)
22. Assist in preparing aircraft and engine for engine ground run
23. Perform maintenance and periodic inspection on propeller