

Higher Nitec in Automotive Engineering (NHN)

HF3AT

Higher Nitec in Automotive Engineering (NHN)

3 month IA Duration

AT43008FPE

1. Maintain workplace health & safety
2. Perform Preventive Maintenance on Internal Combustion Engine air intake, fuel and ignition systems
3. Perform Preventive Maintenance on Internal Combustion Engine cooling system
4. Perform Preventive Maintenance on Internal Combustion Engine lubrication
5. Perform servicing on wheel and tyre components
6. Perform servicing on brake system
7. Perform servicing on suspension system
8. Repair undercarriage components
9. Perform vehicle electrical system fault identification and rectification
10. Perform vehicle charging & starting system fault identification and rectification
11. Overhaul engine mechanical components
12. Replace forced air induction components
13. Perform servicing on engine management system and emission control system
14. Perform functional checks on engine electrical and auxiliary electrical systems
15. Perform diagnosis and troubleshooting on automotive auxiliary systems

HF3AT, HF2AT, HFXAT

Higher Nitec in Automotive Engineering (NHN)

6 month IA Duration

AT53005FPE

AT53006FPE

1. Maintain workplace health & safety
2. Perform Preventive Maintenance on Internal Combustion Engine air intake, fuel and ignition systems
3. Perform Preventive Maintenance on Internal Combustion Engine cooling system
4. Perform Preventive Maintenance on Internal Combustion Engine lubrication
5. Overhaul engine mechanical components
6. Replace forced air induction components
7. Perform servicing on engine management system and emission control system
8. Implementing Safety Awareness Protocols and Procedures when working with High Voltage vehicles
9. Execute maintenance, servicing and troubleshooting practices
10. Monitor Battery Management System
11. Interpret analogue to digital communication
12. Rectify data communications faults on vehicle systems
13. Repair undercarriage and drivetrain components
14. Perform body and chassis diagnosis
15. Perform wheel alignment
16. Perform evaluation of vehicle stabilisation control systems
17. Analyse the performance and status of the Active Driver Assist System (ADAS) capabilities
18. Perform diagnosis and calibration of perception systems
19. Identify faults using scan tools
20. Diagnose Powertrain system faults