Assessment Requirements for AURTTA118 Develop and carry out diagnostic test strategies

Assessment Requirements for AURTTA118 Develop and carry out diagnostic test strategies

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- diagnose faults in three different vehicles or machinery, in which the work must involve:
  - using manufacturer specifications, workplace procedures and information obtained from the customer to develop a diagnostic testing strategy
  - using the diagnostic testing strategy to identify the cause of three of the following faults:
    - loss of vehicle power
    - excessive fuel consumption
    - excessive emissions
    - poor handling
    - poor hydraulic system performance
    - poor pneumatic system performance
    - incorrect mechanical system performance
    - incorrect electrical system performance
    - vibration
    - abnormal noise
  - recording the diagnostic procedures followed with the above vehicles or machinery, the cause or causes of faults and the recommended repairs.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods of gathering information, including:
  - questioning customers
  - effective questioning techniques

- research techniques
- workplace procedures relating to diagnosing faults, including:
  - establishing serviceability of tools and equipment
  - documentation procedures
  - housekeeping procedures, including:
    - examination of tools and equipment
    - storage of equipment
    - identification, tagging and isolation of faulty equipment
    - disposal of excess materials
    - recycling procedures
- benefits of following a strategy-based diagnostic procedure
- methods to locate and interpret information required to develop a diagnostic testing strategy, including:
  - customer complaint
  - manufacturer specifications and procedures, including:
    - flow charts
    - diagnosis charts
  - vehicle systems data, including the outputs of diagnostic scan tools
  - inspection of vehicle
- work health and safety (WHS) policies and procedures relating to carrying out diagnostic procedures, including procedures for working safely with the system being tested
- environmental requirements relating to carrying out diagnostic procedures, including procedures for complying with requirements specific to the system being tested
- key features and limitations of common diagnostic tools
- methods of differentiating between fault symptoms and fault causes.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the vehicles or machinery in which they have diagnosed faults, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive repair workplace or simulated workplace
- workplace instructions detailing customer fault complaint
- manufacturer vehicle or machinery specifications

     Mining and Automotive Skills Alliance

- three different vehicles or machinery with system faults specified in the performance evidence
- tools, equipment and materials required for diagnosing system faults.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1

Mining and Automotive Skills Alliance