



**Australian Government**

# **Assessment Requirements for RIIDES301D Inspect, test and maintain diesel engine systems and their ancillary systems**

**Release: 2**

# Assessment Requirements for RIIDES301D Inspect, test and maintain diesel engine systems and their ancillary systems

## Modification History

| Release | Comment                                                                                                                                                                                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | This unit replaces RIIDES301 Inspect, test and maintain diesel engine systems and their ancillary systems                                                                                                                                                                                                       |
| 2       | Required frequency and volume of evidence amended in Performance evidence.<br>Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm. |

## Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of the inspection, testing and maintenance of diesel engine systems and their ancillary systems including:
  - applying operational safety requirements
  - accessing, interpreting and applying technical information
  - inspecting and testing engine and ancillary systems and diagnosing and recording existing or identified faults
  - routine engine and ancillary system maintenance
  - overhauling of engine and ancillary systems
- works effectively with others to undertake and complete the inspection, testing and maintenance of diesel engine systems and their ancillary systems that meets all of the required outcomes including:
- using a range of communications techniques and equipment to convey information to others
- maintaining written and verbal reporting requirements and procedures
- communicating clearly and concisely with others to receive and clarify work instructions
- demonstrates completion of the inspection, testing and maintenance of diesel engine systems and their ancillary systems which safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:

- selecting and using appropriate inspection and testing methods
- diagnosing and rectifying faults
- completing routine maintenance
- completing overhaul
- completing and maintaining inspection, testing and maintenance records

## Knowledge Evidence

The candidate must demonstrate knowledge in completion of the inspection, testing and maintenance of diesel engine systems and their ancillary systems through:

- accessing, interpreting and applying the organisation and site requirements and procedures for;
  - work health and safety
  - environmental principles/procedures
  - equipment safety requirements
  - written and verbal workplace communication
  - isolation and lock-out
  - service and maintenance reporting requirements
- selecting and using plant, tools and equipment

## Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current\* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,

- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

| Industry sector                                                                            | AQF** Level                                                                                                                                                                                                                                                                                                                    | Required assessor or Industry subject matter expert experience |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction | 1                                                                                                                                                                                                                                                                                                                              | 1 Year                                                         |
|                                                                                            | 2                                                                                                                                                                                                                                                                                                                              | 2 Years                                                        |
| Drilling, Coal Mining and Extractive (Quarrying)                                           | 3-6                                                                                                                                                                                                                                                                                                                            | 3 Years                                                        |
| Metalliferous Mining and Civil Construction                                                | 3-6                                                                                                                                                                                                                                                                                                                            | 5 Years                                                        |
| Other sectors                                                                              | Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation. |                                                                |

\*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

\*\*Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>