



Australian Government

Assessment Requirements for RIIDES304D Inspect, test and maintain inlet systems on diesel engine systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIDES304 Inspect, test and maintain inlet systems on diesel engine systems
2	Required frequency and volume of evidence amended in Performance evidence. 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
- works effectively with others to undertake and complete the inspection, testing and maintenance of inlet systems on diesel engine 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 inspecting, testing and maintaining inlet systems on diesel engine systems that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - carrying out inspection of inlet systems on diesel engine systems
 - carrying out the inspection of inlet system flame traps for effectiveness of explosion protection
 - carrying out testing and fault finding of inlet systems on diesel engine systems
 - diagnosing and recording existing or identified faults, including blockages and constrictions

Knowledge Evidence

The candidate must demonstrate knowledge in when inspecting, testing and maintaining inlet systems on diesel engine systems through:

- site risk, statutory compliance, health, safety, environmental, quality and communication requirements and procedures
- limitations on allowable maintenance including work in hazardous environments
- site and manufacturer's requirements and procedures
- tools required to be used in performance of inspection, testing and maintenance tasks
- site inspection, testing and maintenance support requirements and availability
- site isolation and lock-out requirements and procedures
- the failure modes of the inlet system that may affect the explosion protection characteristics and the emissions from diesel engine systems
- the relative performance (including emissions) of increased air induction systems
- systems for the reduction of the harmful emissions from diesel engines
- functions of the management and treatment systems and principles employed to limit the creation of and to manage harmful emissions from diesel engine

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
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		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>