



Australian Government

RIIDES307D Test, determine the cause and rectify excessive emission levels on diesel engine systems

Release: 2

RIIDES307D Test, determine the cause and rectify excessive emission levels on diesel engine systems

Modification History

Release	Comment
1	This unit replaces RIIDES307 Test, determine the cause and rectify excessive emission levels 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.

Application

This unit describes a participant's skills and knowledge required to test, determine the cause and rectify excessive emission levels on diesel engine systems in Coal mining.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of this unit.

Unit Sector

Coal mining

Elements and Performance Criteria

1. Plan for testing and determine the cause and rectify excessive emission levels on diesel engine systems	1.1 Access, interpret, test and determine the cause and rectify excessive emission levels on diesel engine systems documentation and ensure the work activity is compliant 1.2 Obtain, interpret clarify and confirm work requirements before proceeding 1.3 Conduct a toolbox talk with others at the site prior to commencing and during work activities 1.4 Identify, address and report potential hazards, risks and environmental issues 1.5 Obtain and interpret emergency procedures, and be prepared
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	for fire/accident/emergency
2. Prepare for testing and determine the cause and rectify excessive emission levels on diesel engine systems	2.1 Coordinate activities with others prior to commencement of, and during, the work activity 2.2 Identify and obtain items and tools required for the safe, effective and efficient conduct of the tasks. 2.3 Identify and arrange support required for the safe, effective and efficient completion of the tasks 2.4 Select and wear personal protection equipment appropriate for work activities 2.5 Carry out required equipment pre-start and inspection procedures 2.6 Carry out isolation and lock-out of all equipment necessary for the safe execution of tasks 2.7 Recognise and respond to hazardous and emergency situations
3. Carry out testing of emission levels and determine the cause of excessive emission levels on diesel engine systems	3.1 Select and operate testing equipment and methods 3.2 Carry out testing on diesel engine systems 3.3 Test and report on the performance of diesel oxidation catalyst system 3.4 Determine the cause of any excessive emission levels 3.5 Report outcomes of testing to appropriate person
4. Rectify excessive emission levels on diesel engine systems	4.1 Select and use maintenance items, tools and equipment 4.2 Carry out maintenance to rectify excessive emission levels on diesel engine systems
5. Conduct housekeeping activities	5.1 Tidy up the work area 5.2 Dispose of used oil, lubricant and other waste 5.3 Return and secure all tools and re-usable items 5.4 Complete and maintain inspection, testing and maintenance records

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIDES307 Test, determine the cause and rectify excessive emission levels on diesel engine systems

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for RIIDES307D Test, determine the cause and rectify excessive emission levels on diesel engine systems

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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 testing, determination of the cause of and rectification of excessive emission levels on diesel engines 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 testing, determining the cause and rectifying excessive emission levels on diesel engine systems that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - selecting and operating testing equipment and methods
 - carrying out testing on diesel engine systems
 - test and report on the performance of diesel oxidation catalyst system
 - completing routine maintenance
 - completing and maintaining written inspection, testing and maintenance records

Knowledge Evidence

The candidate must demonstrate knowledge in, when testing, determining the cause and rectifying excessive emission levels on diesel engine systems through:

- site risk, statutory compliance, health, safety, environmental, quality and communication requirements and procedures
- 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 work area inspection requirements
- site work area safeguarding options and requirements
- site isolation and lock-out requirements and procedures
- site hazard and emergency procedures

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	1	1 Year

Mining, Extractive (Quarrying) and Civil Construction	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

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