



Australian Government

RIIDES305D Inspect, test and maintain exhaust systems on diesel engine systems

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIDES305 Inspect, test and maintain exhaust 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.

Application

This unit describes a participant's skills and knowledge required to inspect, test and maintain exhaust systems 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 inspection, testing and maintenance of exhaust systems on diesel engine systems	1.1 Access, interpret, inspect, test and maintain exhaust systems on diesel engine systems documentation and ensure the work activity is compliant 1.2 Obtain, interpret clarify, confirm and apply verbal and written work instructions 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 and implement control measures 1.5 Obtain and interpret emergency procedures, and be prepared
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	for an emergency
2. Prepare for inspection, testing and maintenance of exhaust systems on diesel engine systems	<p>2.1 Coordinate activities with others prior to commencement of, during, and on completion of the work activity</p> <p>2.2 Identify and obtain items and tools required for the safe, effective and efficient conduct of the tasks.</p> <p>2.3 Access and wear personal protection equipment appropriate for work activities</p> <p>2.4 Access and apply isolation and lock-out of all equipment necessary for the safe execution of tasks</p>
3. Carry out inspection of exhaust systems on diesel engines systems	<p>3.1 Inspect exhaust systems on diesel engine systems</p> <p>3.2 Carry out inspection and fault finding of exhaust system flame traps for explosion protection</p> <p>3.3 Carry out inspection and fault finding of exhaust gas cooling systems</p> <p>3.4 Carry out inspection and fault finding of exhaust system joints</p> <p>3.5 Diagnose and record existing or identified faults and record corrective actions</p>
4. Carry out testing of exhaust systems on diesel engine systems	<p>4.1 Access and operate testing equipment</p> <p>4.2 Carry out testing and fault finding of exhaust systems on diesel engine systems</p> <p>4.3 Carry out testing of exhaust system flame traps for explosion and fire protection</p> <p>4.4 Carry out leak testing of exhaust system joints for explosion and fire protection</p> <p>4.5 Test and report on the performance of exhaust emission treatment devices</p> <p>4.6 Identify and record existing or potential faults, including blockages and constrictions and recommend corrective actions</p>
5. Carryout routine maintenance of exhaust systems on diesel engine systems	<p>5.1 Access and use maintenance items, tools and equipment</p> <p>5.2 Identify, interpret and apply corrective actions</p> <p>5.3 Carry out routine maintenance of exhaust systems on diesel engine systems</p> <p>5.4 Carry out routine maintenance of exhaust system flame traps for explosion protection</p> <p>5.5 Carry out routine maintenance of exhaust system joints for explosion and fire protection</p>

6. Carry out the overhaul of exhaust systems on diesel engine systems	6.1 Access and use overhaul tools and equipment 6.2 Carry out overhaul of exhaust systems
7. Conduct housekeeping activities	7.1 Clean, check, maintain and store plant, tools and equipment 7.2 Report issues identified with plant, tools and equipment

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

RIIDES305 Inspect, test and maintain exhaust systems 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>