



Australian Government

**RIIDES306D Inspect, test and maintain
safety shutdown systems on diesel engine
systems**

Release: 2

RIIDES306D Inspect, test and maintain safety shutdown systems on diesel engine systems

Modification History

Release	Comment
1	This unit replaces RIIDES306 Inspect, test and maintain safety shutdown 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 safety shutdown 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

<p>1. Plan for inspection, testing and maintenance of safety shutdown systems on diesel engine systems</p>	<p>1.1 Access, interpret, inspect, test and maintain the safety shutdown systems on diesel engine systems, apply documentation and ensure compliance to the work activity</p> <p>1.2 Obtain, interpret clarify, confirm and apply verbal and written work instructions</p> <p>1.3 Conduct a toolbox talk with others at the site prior to commencing and during work activities</p> <p>1.4 Identify, address and report potential hazards, risks and environmental issues and implement control measures</p> <p>1.5 Obtain and interpret emergency procedures, and be prepared</p>
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	for an emergency
2. Prepare for inspection, testing and maintenance of safety shutdown 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 required isolation and lock-out of all equipment necessary for the safe execution of tasks</p>
3. Carry out inspection of safety shutdown systems on diesel engine systems	<p>3.1 Carry out inspection of engine safety shutdown systems (fuel shutdown systems)</p> <p>3.2 Carry out inspection of emergency safety shutdown systems and sensing devices</p> <p>3.3 Carry out inspection of manual fuel shut-off valves</p> <p>3.4 Carry out inspection of hoses, tubes cables and connectors associated with safety shutdown systems</p> <p>3.5 Diagnose and record existing or identified faults and recommend corrective actions</p>
4. Carry out testing of safety shutdown systems on diesel engine systems	<p>4.1 Access and operate testing equipment</p> <p>4.2 Carry out testing and fault finding of engine safety shutdown systems (fuel shutdown systems)</p> <p>4.3 Carry out testing and fault finding of emergency safety shutdown systems and sensing devices</p> <p>4.4 Carry out testing and fault finding of manual fuel shut-off valves</p> <p>4.5 Identify and record existing or potential faults and recommend corrective actions</p>
5. Carry out routine maintenance of safety shutdown systems on diesel engine systems	<p>5.1 Access and use maintenance tools and equipment</p> <p>5.2 Identify, interpret and apply corrective actions</p> <p>5.3 Carry out routine maintenance of engine safety shutdown systems (fuel shutdown systems)</p> <p>5.4 Carry out routine maintenance of emergency safety shutdown systems and sensing devices</p> <p>5.5 Carry out routine maintenance of manual fuel shut-off valves</p>
6. Carry out the overhaul of safety shutdown systems on	<p>6.1 Access and use overhaul items, tools and equipment</p> <p>6.2 Carry out overhaul of safety shutdown systems</p>

diesel engine 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

RIIDES306 Inspect, test and maintain safety shutdown 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>