



Australian Government

SISODRV001 Drive AWD/4WD vehicles on unsealed roads

Release: 1

SISODRV001 Drive AWD/4WD vehicles on unsealed roads

Modification History

Not applicable.

Application

This unit describes the performance outcomes, skills and knowledge required to operate all-wheel drive and four drive vehicles on graded formed dirt roads. It also requires the ability to negotiate minor water crossings.

This unit applies to any type of organisation that delivers outdoor recreation activities including commercial, not-for-profit and government organisations.

It applies to all delivery personnel working at any level including support staff, activity assistants and leaders. They drive vehicles for a range of purposes including transporting participants, personnel and equipment to and from activity sites.

Driving is regulated by specific laws in each Australian state and territory with variable rules. All training and assessment activities must comply with the local state or territory road rules and driver licensing requirements. This unit assumes the driver has knowledge of applicable road rules which do not need to be assessed.

Pre-requisite Unit

Nil

Competency Field

Driving

Unit Sector

Outdoor Recreation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes

1. Prepare for departure.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1. Confirm organisational safety and emergency response procedures to ensure compliance during trip.
- 1.2. Complete pre-start checks on oil, fuel and water.
- 1.3. Check and adjust tyre pressure to suit road conditions and terrain.

- 1.4. Check equipment and resources are loaded to ensure balance, and secure load.
- 1.5. Adjust steering wheel, seats and mirrors to suit own driving position.
2. Operate vehicle.
 - 2.1. Set and operate vehicle equipment and controls appropriate to road conditions and terrain.
 - 2.2. Drive vehicle at speed appropriate for road, traffic and terrain conditions.
 - 2.3. Maintain traction of vehicle using smooth acceleration and braking techniques suited to road conditions and terrain.
 - 2.4. Monitor and safely negotiate road conditions, hazards and other users constantly to avoid vehicle damage and collisions.
 - 2.5. Park and shut down vehicle according to manufacturer's specifications.
3. Negotiate minor water crossings.
 - 3.1. Inspect water crossings for depth, flow rate and solidity of base prior to crossing.
 - 3.2. Negotiate water crossings using appropriate speed, gear selection and device engagement while maintaining safety of vehicle, personnel and environment.
4. Change wheels.
 - 4.1. Locate jack and position according to manufacturers' specifications.
 - 4.2. Remove and replace wheel according to manufacturers' specifications.

Foundation Skills

Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed here, along with a brief context statement.

SKILLS	DESCRIPTION
Reading skills to:	interpret basic factual information on road signs and in manufacturer's specifications.
Numeracy skills to:	interpret and calculate numerical data involving distances, times and speeds.
Planning and organising skills to:	manage own timing to complete trip within planned timeframes.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume Implementation Guides -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1ca50016-24d2-4161-a044-d3faa200268b>

Assessment Requirements for SISODRV001 Drive AWD/4WD vehicles on unsealed roads

Modification History

Not applicable.

Performance Evidence

Evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of the job role, and:

- complete three trips in all-wheel or four feel drive vehicles on three different graded formed dirt roads
- during each trip consistently follow safety procedures and safely negotiate hazards and road conditions
- complete a minor water crossing on three occasions
- change a total of three wheels.

Knowledge Evidence

Demonstrated knowledge required to complete the tasks outlined in elements and performance criteria of this unit:

- organisational safety and emergency response procedures for driving activities
- difference between all-wheel and four feel drive vehicles, at a basic level of understanding
- manufacturers' specifications for wheel replacement
- features, function and operation of AWD and 4WD vehicle equipment and controls used for dirt road driving and when negotiating minor water crossings:
 - instruments
 - traction devices
 - wheel hubs, self-locking and manual locking
- how tyre pressure can affect comfort and safety of dirt road driving and how to determine appropriate tyre pressure for a range of conditions and loads
- factors that affect a vehicle's traction on dirt roads
- techniques used to maintain traction including those for:
 - braking
 - acceleration
 - steering
- meaning of centre of gravity for a vehicle and factors that affect this when driving
- driving techniques used when negotiating minor water crossings
- features, functions and operation of equipment for:
 - checking oil and water
 - changing tyre pressure

- securing loads
- changing wheels
- typical hazards associated with driving on unsealed roads, and techniques used to safely negotiate these:
 - blind corners
 - one-lane bridges
 - slippery road surface
 - bumps
 - depressions
 - potholes
 - drainage grates
 - rail crossings
 - moving and parked vehicles
 - other users:
 - cyclists
 - pedestrians
 - runners
 - horse riders.

Assessment Conditions

Skills must be demonstrated on graded formed dirt roads and in environments which feature minor water crossings.

The following resources must be available to replicate industry conditions of operation:

- first aid equipment
- communication equipment for emergency response.

Assessment must ensure use of:

- all-wheel drive or four wheel drive vehicles
- wheel changing equipment including jacks
- spare fully functioning wheels and tyres
- organisational safety and emergency response procedures for driving activities.

Assessors must satisfy the Standards for Registered Training Organisations requirements for assessors, and:

- hold a driver's licence which complies with local state or territory law.

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