



Australian Government

RIIVEH305F Operate and maintain a four wheel drive vehicle

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to operate and maintain a four wheel drive vehicle in the resources and infrastructure industries.

It applies to those working in supervisory and technical specialist roles. They generally work under minimal supervision to undertake a broad range of skilled applications in varied work contexts, using some discretion and judgement in selecting equipment, services or contingency measures.

Licensing, legislative and certification requirements may apply to this unit and can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Identify four-wheel drive specific terms, terminology and techniques	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to operate and maintain a four wheel drive 1.3 Identify the structural and handling differences between a conventional two wheel drive and a four-wheel drive vehicle 1.4 Identify and demonstrate the purpose and use of front wheel hubs 1.5 Identify factors affecting tyre size, fitment, rating, and pressure 1.6 Identify recovery hooks and mounting features 1.7 Identify hazards associated with incorrect use of vehicle features or equipment
2. Plan for minimal environmental impact	2.1 Determine types of impact likely to occur during four-wheel driving activities 2.2 Demonstrate compliance with land management principles and

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	<p>policies when planning exploration activities</p> <p>2.3 Comply with policies and management plans relevant to the work activity area</p> <p>2.4 Plan and conduct activities in a manner which minimises environmental impact</p> <p>2.5 Adopt and implement procedures to ensure minimisation of harm to the environment from four-wheel drive activities</p> <p>2.6 Demonstrate cooperation and consideration towards other land users</p>
3. Perform pre-departure checks	<p>3.1 Perform routine pre-departure checks under the bonnet, under the body, on external and internal items and accessories according to manufacturer specifications</p> <p>3.2 Take action to correct any deficiency</p> <p>3.3 Determine food and water requirements for journey</p> <p>3.4 Select navigation equipment</p> <p>3.5 Interpret weather conditions, determine suitability for driving</p> <p>3.6 Apply safe vehicle loading practices according to workplace procedures</p> <p>3.7 Secure items of personal luggage</p> <p>3.8 Advise passengers of any special safety precautions to be taken when traversing rough terrain</p>
4. Use four-wheel drive mode	<p>4.1 Operate four-wheel drive both on and off road, in accordance with road rules, principles of four-wheel driving and WHS regulations according to manufacturer specifications</p> <p>4.2 Apply smooth accelerator control strategies over a range of terrain types according to manufacturer specifications</p> <p>4.3 Demonstrate recommended braking techniques for hard top surfaces and off road conditions according to manufacturer specifications</p> <p>4.4 Identify situations where the engagement of four-wheel drive is required</p> <p>4.5 Engage four-wheel drive mode</p> <p>4.6 Survey track to identify hazards, assess risk and select the best route</p> <p>4.7 Select routes to minimise damage to the environment</p> <p>4.8 Use appropriate range, gear, speed, driving and braking technique, negotiate a range of terrain types whilst maintaining control of vehicle, being aware of contextual/environment issues</p> <p>4.9 Maintain appropriate hand positioning on steering wheel</p> <p>4.10 Check brakes and undercarriage after negotiating varying terrain</p> <p>4.11 Assess and perform repairs to damaged tracks according to workplace procedures</p>
5. Coordinate and	5.1 Apply work procedures to ensure risk assessment, safe operating

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recover a vehicle	<p>practices, and communication requirements are adhered to</p> <p>5.2 Identify equipment and methods to recover a stuck vehicle</p> <p>5.3 Identify risks associated with vehicle recovery and develop and implement strategies to minimise risks</p> <p>5.4 Identify correctly rated recovery equipment and attachment points according to manufacturer specifications</p> <p>5.5 Demonstrate procedures for preparing vehicles for recovery</p> <p>5.6 Identify techniques to minimise impact on the environment during vehicle recovery</p> <p>5.7 Coordinate safe recovery of a four-wheel drive vehicle using designated equipment and recovery method</p> <p>5.8 Perform post recovery checks and report any vehicle or environmental repairs needed</p> <p>5.9 Return recovery equipment to a reusable condition</p>
6. Perform maintenance and minor repairs on four-wheel drive vehicles	<p>6.1 Select/access maintenance equipment, including spares and fluids, prior to departure, considering contextual issues of the trip</p> <p>6.2 Check vehicles prior to and regularly during trip, and perform routine maintenance/repair tasks according to workplace procedures</p> <p>6.3 Submit vehicle written performance reports according to workplace procedures</p> <p>6.4 Demonstrate safe use of a jack to change a wheel on a four-wheel drive vehicle according to manufacturer specifications</p>

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Reading	<ul style="list-style-type: none"> Identifies and interprets information from workplace procedures, documentation and regulations
Writing	<ul style="list-style-type: none"> Produces and completes written documents required for workplace procedures
Self-management	<ul style="list-style-type: none"> Monitors and minimises own exposure to worksite risks and hazards during activities

Unit Mapping Information

Supersedes and is equivalent to RIIVEH305E Operate and maintain a four wheel drive vehicle.

Links

Companion Volume implementation guides is found on VETNet -

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