

FWPFGM3215 Perform complex 4x4 operations

Release: 1

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Modification History

| Release | Comment |
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| | Replaces equivalent unit FPIFGM3215 Perform complex 4x4 operations, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. |
| | This is the first release of this unit in the new standards format. |

Application

This unit of competency describes the outcomes required to perform complex four-wheel drive (4x4) vehicle operations, including operations over rugged terrain and water crossings.

The unit applies to those who operate a four wheel drive in forest and timber processing environments.

Licensing, legislative, regulatory, or certification requirements apply to this unit in some states and territories at the time of publication, and may differ according to jurisdiction.

Pre-requisite Unit

Nil

Unit Sector

Forest Growing and Management Harvesting and Haulage Sawmilling and Processing

Elements and Performance Criteria

| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions. |
|---|---|
| 1. Prepare for complex 4x4 operations | 1.1 Identify and assess types of water crossings and terrain being accessed for safe operating conditions. |
| | 1.2 Check that 4x4 vehicle being used is appropriate to conditions and operationally effective in line with manufacturer specifications. |

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| | 1.3 Identify appropriate range of personal protective equipment |
|--|--|
| | (PPE) to be carried for the trip conditions. |
| | 1.4 Establish communication with others and choose required safety mechanisms in line with organisational requirements. |
| 2. Prepare 4x4 vehicle for water crossing | 2.1 Place cover securely across the front of the vehicle when required by water depth. |
| | 2.2 Protect electrical connectors, battery terminals and electrical components. |
| | 2.3 Check wheel hubs to engage/lock position. |
| | 2.4 Select appropriate gear for water crossing. |
| | 2.5 Allow vehicle to cool down before entering water |
| 3. Negotiate water crossing | 3.1 Assess hazards and risks associated with water crossings. |
| | 3.2 Determine safety of water crossing. |
| | 3.3 Establish and select entry and exit points for crossing in line with current flow and risk assessment. |
| | 3.4 Access water crossing to determine depth of water at intended crossing point. |
| | 3.5 Monitor the track continually to identify hazards and assess risks. |
| | 3.6 Perform water crossing by maintaining a constant bow wave. |
| 4. Perform check of vehicle | 4.1 Drain water from 4x4 vehicle back into the water crossing. |
| operations on completion of water crossing | 4.2 Dry brakes off by gentle application while moving. |
| water crossing | 4.3 Check engine oils for contamination. |
| | 4.4 Check air cleaner elements for water intrusion and assess air intake operational effectiveness. |
| | 4.5 Check differential and gear box oils after prolonged periods in the water. |
| 5. Operate vehicle in | 5.1 Determine intended route prior to departure. |
| rugged terrain | 5.2 Inspect intended vehicle path prior to negotiation of rugged terrain. |
| | 5.3 Identify potential hazards and risks when operating vehicle in rugged terrain and ensure appropriate response can be applied |
| | 5.4 Inspect, position and secure vehicle load to maximise traction for 4x4 driving. |
| | 5.5 Set vehicle controls in line with manufacturer specifications and for operation in the rugged terrain. |

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| | 5.6 Negotiate terrain in line with requirements for specific driving conditions. |
|--|--|
| 6. Recover vehicle from loss of traction while ascending | 6.1 Determine intended route backwards.6.2 Use correct brake and engine techniques to reverse vehicle.6.3 Ensure vehicle comes to a safe stop. |
| 7. Perform post-trip tasks | 7.1 Notify relevant personnel of trip completion.7.2 Carry out maintenance on allocated vehicle.7.3 Record and report activity in line with organisational procedures. |

Foundation Skills

| This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria. | | | | |
|---|--|--|--|--|
| Numeracy skills to: | measure, estimate and calculate time required to complete the task | | | |
| | time to complete the task | | | |
| | determine if vehicle has sufficient fuel for the task. | | | |
| Initiative and enterprise skills to: | apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities. | | | |
| Problem-solving skills to: | • identify faults and issues associated with performing complex 4x4 operations, and identify solutions. | | | |

Range of Conditions

Not Applicable

Unit Mapping Information

FPIFGM3215 Perform complex 4x4 operations

Links

 $Companion\ \ Volume\ \ implementation\ \ guides\ \ are\ found\ \ in\ \ VETNet-https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47$

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