



Australian Government

Department of Education, Employment and Workplace Relations

FPICOT2234A Operate 4x4 vehicle

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit specifies the outcomes required to operate a 4x4 vehicle safely in a range of conditions including normal roads, traversing slopes, ascending and descending steep slopes and stall recovery. Compliance with licensing, legislative, regulatory or certification requirements may be required in various jurisdictions

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Application of the Unit

This unit supports the attainment of skills and knowledge required for competent workplace performance in forest and forest products operations of all sizes. The unit applies to a forest environment and involves application of skills and knowledge at a production worker level. These skills and knowledge are to be used within the scope of the persons job and authority

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Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency

Performance Criteria describe the required performance needed to demonstrate achievement of the Element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide

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Elements and Performance Criteria

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Element	Performance Criteria
1 Prepare for 4x4 operations	1.1 Applicable Occupational Health and Safety (OHS), legislative and organisational requirements relevant to operating a 4x4 vehicle are identified and complied with 1.2 Pre-start checks of vehicle and equipment are carried out to manufacturer's specifications and roadworthy requirements 1.3 Tyres are checked for pressure suitable for terrain and changed as required in accordance with organisational procedures 1.4 Loads are secured in accordance with organisational and legislative requirements 1.5 Communication with others is established and maintained in accordance with OHS requirements
2 Operate 4x4 vehicle	2.1 Intended vehicle path is inspected for potential hazards and risks prior to negotiation in accordance with OHS requirements 2.2 Vehicle is driven on and off road at appropriate speeds for conditions in accordance with organisational and legislative requirements 2.3 Vehicle is parked and shut down in accordance with manufacturer's specifications and

organisational requirements

- 2.4 2.5 Vehicle and equipment are cleaned and stored after use in accordance with manufacturer's specifications and organisational procedures
- 3 Operate vehicle on a steep slope
 - 3.1 Intended vehicle path is inspected prior to negotiation of slope
 - 3.2 Appropriate gear is selected to negotiate grade and engine revolutions maintained to ensure constant traction
 - 3.3 Air-conditioning unit is turned off to avoid engine acceleration
 - 3.4 **Braking is used to control descent/ascent and skidding avoided through application of brakes to emulate ABS**
 - 3.5 Traction is maintained in accordance with requirements of the vehicle and the surrounding terrain

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit

Required skills include:

comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for operating a 4x4 vehicle

use and maintain relevant tools, machinery and equipment

identify problems and equipment faults and demonstrate appropriate response procedures

use appropriate communication and interpersonal techniques with colleagues and others

accurately record and report workplace information, and maintain documentation

effectively identify potential hazards and operational faults

efficiently and safely operate a 4x4 vehicle

safely negotiate steep slopes

effectively clean and store vehicle and equipment

effectively attach equipment to vehicle

effectively operate a jack

Required knowledge and understanding includes:

applicable Commonwealth, State or Territory licensing, legislative, regulatory or certification requirements and codes of practice relevant to operating a 4x4 vehicle

organisational and site standards, requirements, policies and procedures for operating a 4x4 vehicle

principles of cultural diversity and access and equity

environmental protection requirements, including the safe disposal of waste material

established communication channels and protocols

problem identification and resolution

types of tools and equipment and procedures

for their safe use, operation and maintenance

4x4 operations and techniques

operational knowledge of 4x4 vehicle
including controls, instruments and
indicators and their use

road rules, regulations, permit and licence
requirements of the relevant State/Territory
road traffic authority

procedures for the recording, reporting and
maintenance of workplace records and
information

appropriate mathematical procedures for
estimation and measurement

KEYCOMPETENCIES

The seven key competencies represent generic skills considered necessary for effective participation by an individual in the workplace Performance Level 1 - at this level, the candidate is required to undertake tasks effectively Performance Level 2 - at this level, the candidate is required to manage tasks Performance Level 3 - at this level, the candidate is required to use concepts for evaluating and reshaping task

Key Competency	Example of Application	Performance Level
How are ideas and information communicated?	By communicating in simple language to confirm operation requirements, convey information and requests to colleagues, and report and record outcomes	1
How can information be collected, analysed and organised?	By checking vehicle requirements for operation including inspecting path or terrain for hazards	2
How are activities planned and organised?	By organising work activities in the correct sequence for 4x4 operations to be completed within the designated timeframes	1
How is team work used?	By using effective communication and interpersonal techniques with colleagues and others to maximise safety during 4x4 operation	1
How are mathematical ideas and techniques used?	By calculating time to complete tasks and estimating tools, equipment and material requirements	1
How are problem solving skills applied?	By establishing safe and effective processes for 4x4 operation which anticipate likely problems	2
How is the use of technology applied?	By selecting and using vehicle and equipment to perform safe 4x4 operation	1

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence that they can safely and efficiently operate a 4x4 vehicle

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Comply with applicable Commonwealth, State or Territory legislative and regulatory requirements and codes of practice, including OHS, environmental and organisational policies and procedures, relevant to operating a 4x4 vehicle

Comply with applicable licensing or certification requirements

Communicate effectively and work safely with others in the rough terrain or water crossing location

Effectively perform pre-start checks of vehicle and equipment

Safely operate a 4x4 vehicle in a range of on and off road conditions including negotiating steep slopes

Context of and specific resources for assessment

Competency is to be assessed in the workplace or realistically simulated workplace

Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints

Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context

Assessment is to comply with relevant regulatory or Australian Standards requirements

The following resources should be made available:

workplace location or simulated workplace

materials and equipment relevant to operate a 4x4 vehicle

specifications and work instructions

Method of assessment

Assessment must satisfy the endorsed Assessment Guidelines of the FPI05 Training Package

Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge

Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of key competencies

Assessment methods must confirm the ability to access and correctly interpret and apply the essential underpinning knowledge

Assessment may be applied under project-related conditions (real or simulated) and require evidence of process

Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances

Assessment may be in conjunction with assessment of other units of competency

The assessment environment should not disadvantage the candidate

Assessment practices should take into account any relevant language or cultural issues related to Aboriginality, gender or language backgrounds other than English

Where the participant has a disability, reasonable adjustment may be applied during assessment

Language and literacy demands of the assessment task should not be higher than those of the work role

Range Statement

RANGE STATEMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording in the Performance Criteria is detailed below

OHS requirements are to be in accordance with Commonwealth, State or Territory legislation and regulations, and organisational safety policies and procedures. Requirements may include:

the use of personal protective equipment and clothing
safety equipment
first aid equipment
fire fighting equipment
hazard and risk control
elimination of hazardous materials and substances
safe forest practices including required actions relating to forest fire
manual handling including shifting, lifting and carrying

Legislative requirements are to be in accordance with applicable legislation from all levels of government that affect organisational operation. Requirements may include:

award and enterprise agreements
industrial relations
Australian Standards
confidentiality and privacy
OHS
the environment
equal opportunity
anti-discrimination
relevant industry codes of practice
duty of care
heritage and traditional land owner issues

Organisational requirements

may include legal, organisational and site guidelines, policies and procedures relating to own role and responsibility, quality assurance, procedural manuals, quality and continuous improvement processes and standards, OHS, emergency and evacuation, ethical standards, recording and reporting, access and equity principles and practices, equipment use, maintenance and storage,

	environmental management (waste disposal, recycling and re-use guidelines)
Vehicle	may include all terrain vehicles, cars, utilities, trailers and light trucks
Pre-start checks	may include fuel, water, oil, brake and transmission fluid levels, battery water levels and electrolyte checks, tyres, belts, leads, hydraulic lines and connections, air cleaners, air conditioners, brakes, off-road safety equipment
Manufacturer's specifications	may include engine characteristics, systems warning function, four wheel drive operation, radius of turning circle and safety procedures
Communication	may include verbal and non-verbal language, constructive feedback, active listening, questioning to clarify and confirm understanding, use of positive, confident and cooperative language, use of language and concepts appropriate to individual social and cultural differences, control of tone of voice and body language
Hazards and risks	may include rocks and other unexpected obstacles, damage to vehicle, wet and iced terrain, flooded terrain, fire in vehicle, faulty brakes, leaking fuel, faulty steering mechanism on vehicle, animals and objects in vehicle path, windy or foggy sections of terrain, steep slopes, oil on road, parked vehicles on road, pedestrians crossing the road, poor visibility
Conditions	is to include on and off road conditions which may include smooth, rough, uneven, slippery, boggy, sandy, steep or hilly terrain, rock, ice, snow, mud, adverse weather conditions, speed limits for non-response operation, legal parking, traffic pattern and density, visibility, effects of weather on roads

Unit Sector(s)

Not applicable.

Competency Field

Common Technical

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