



Australian Government

FWPHAR3219 Conduct excavator operations with grabs

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPIHAR3219A Conduct excavator operations with grabs, 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 operate an excavator with grabs to shift materials and complete tasks. Work is completed in a forest or forest farm setting and includes operator maintenance.

The unit applies to those who operate excavator operations with grabs in a forest environment.

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

Harvesting and Haulage

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>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.</i>
1. Plan excavator operations	1.1 Review work order and where required check with appropriate personnel. 1.2 Select appropriate personal protective equipment and check for operational effectiveness. 1.3 Identify type, quantity and weight of material to be moved to determine load requirements. 1.4 Determine and confirm location, level and suitable surface to

	ensure stability of excavator. 1.5 Plan excavator operations in line with work order and heritage concerns. 1.6 Check excavator controls and functions, implements, brakes and manoeuvrability to ensure operational effectiveness.
2. Operate excavator to shift materials	2.1 Use equipment in line with organisational safety procedures, manufacturer's instructions and environmental protection practices. 2.2 Position excavator on stable surface and secure to ensure stability throughout operations. 2.3 Select, attach and stabilise lifting gear in line with safe working load requirements and organisational safety procedures. 2.4 Operate excavator to shift material with optimum efficiency; observe and respond to people and hazards present. 2.5 Use communication signals throughout excavator operations to notify nearby personnel of ongoing operations.
3. Complete operator maintenance	3.1 Safely park, shut down and prepare excavator for maintenance. 3.2 Inspect excavator for faults, remove and replace defective parts in line with manufacturer's recommendations 3.3 Complete cleaning and programmed maintenance tasks for excavator; dispose of waste materials in line with environmental protection practices. 3.4 Record and report process outcomes, equipment faults and maintenance requirements to appropriate personnel.

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:	- identify quantities and weight of material to be moved from work orders - complete routine calculations to determine material dimensions and weights for loading and shifting.
Oral communication skills to:	- ask questions and actively listen to clarify contents of work orders - provide clear, unambiguous verbal and non-verbal communication signals.
Reading skills to:	- interpret - workplace health and safety and other organisational

	procedures • work orders • manufacturers instructions and maintenance recommendations
Writing skills to:	• complete accurate basic records for process outcomes, equipment faults and maintenance requirements.
Planning and organising skills to:	• efficiently and logically sequence the stages of preparation and material moving, using work order to guide activities.

Range of Conditions

Not Applicable

Unit Mapping Information

FPIHAR3219A Conduct excavator operations with grabs

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPHAR3219 Conduct excavator operations with grabs

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1	Replaces equivalent unit FPIHAR3219A Conduct excavator operations with grabs, 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. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement.

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- operate an excavator, attachments and lifting gear to complete tasks, chosen from the following list, in line with individual work orders:
 - lifting and moving materials
 - tree removal
 - stripping
 - spreading materials
 - stockpiling
 - bulk excavation
 - land clearing
 - towing equipment
 - winching
 - boxing
 - constructing fire breaks
- complete operator maintenance after the completion of each of job.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- environmental protection practices for operating excavators:

- reducing water and energy use
- cleaning plant, tools and equipment
- disposing of, recycling and reusing timber and other waste
- common range of environmental and heritage concerns relevant to operating an excavator methods used to minimise damage:
 - dust
 - noise
 - water
 - flora and fauna
 - culturally sensitive sites and artefacts
 - plantations
 - native forest
- typical workplace hazards present during excavator operations and methods of minimising risks
- capacity of excavators and attachments in relation to dimensions and weight
- operating techniques for excavators and range of movements
- methods to correctly position and secure excavators to ensure stability of load and equipment
- key features of these varying signal systems used for excavator operations:
 - hand signals
 - whistles
 - sirens
 - loud speaker announcements
 - two way radios
- typical industry chain of command for communicating signals during excavator operations
- purpose, features, operation and shut down of excavator equipment:
 - excavators
 - buckets
 - forks
 - lifting gear:
 - slings
 - cables
 - grabs
- methods for:
 - assessing condition of excavator parts
 - removing and replacing defective parts
- organisational procedures specific to operating excavators:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines

- recording and reporting process outcomes, equipment faults and maintenance requirements.

Assessment Conditions

The following resources must be made available:

- excavators
- lifting gear including:
 - slings
 - cables
 - grabs
- maintenance tools and equipment for removing and replacing defective excavator parts
- communication equipment used to signal operation of excavator
- personal protective equipment suitable for operating an excavator
- manufacturers' instructions for equipment use and maintenance
- work order with specific instructions for excavating operations
- template documents for recording process outcomes, equipment faults and maintenance requirements
- organisational procedures for operating excavators.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

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