



Australian Government

Department of Education, Employment and Workplace Relations

FPICOT3221B Rehabilitate tracks, quarries and landings

Release: 1

FPICOT3221B Rehabilitate tracks, quarries and landings

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit describes the outcomes required to establish rehabilitation requirements of tracks, quarries and landings and plan and carry out renovation operations. It also requires the establishment of run-off and drainage channels

Compliance with licensing, legislative, regulatory or certification requirements may be required in various jurisdictions

This unit replaces FPICOT3221A Rehabilitate tracks, quarries and landings

Application of the Unit

Application of the unit

The unit involves rehabilitating tracks, quarries and landings in a forest environment setting

The skills and knowledge required for competent workplace performance are to be used within the scope of the person's job and authority

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability skills This unit contains employability skills

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

| ELEMENT | PERFORMANCE CRITERIA |
|---|--|
| 1. Identify rehabilitation requirements | <p>1.1. Applicable <i>occupational health and safety</i> (OHS), <i>environmental</i>, <i>legislative</i> and <i>organisational requirements</i> relevant to <i>rehabilitating tracks, quarries and landings</i> are identified and followed</p> <p>1.2. <i>Work order</i> is reviewed and clarified with <i>appropriate personnel</i></p> <p>1.3. <i>Relevant information</i> is obtained and reviewed, and restoration and revegetation requirements are identified</p> <p>1.4. Site is <i>inspected</i> and specific rehabilitation requirements are identified</p> <p>1.5. <i>Communication</i> with others is established and maintained in line with OHS requirements</p> |
| 2. Plan rehabilitation operations | <p>2.1. Site <i>environmental protection measures</i> are followed in line with applicable legislation and regulations</p> <p>2.2. <i>Equipment</i> is selected appropriate to work requirements and checked for operational effectiveness in line with manufacturer recommendations</p> <p>2.3. Site hazards are identified, assessed and controlled in line with OHS and site requirements</p> <p>2.4. Sequence of <i>rehabilitation operations</i> is determined to ensure that time is used efficiently and residual equipment damage is minimised</p> <p>2.5. Rehabilitation operations are checked for safe working conditions and planned in line with OHS, environmental care principles and site procedures</p> |
| 3. Rehabilitate tracks, quarries and landings | <p>3.1. Nearby personnel are advised of impending equipment operation in line with OHS requirements and site procedures</p> <p>3.2. Equipment is operated in line with manufacturer recommendations and performance is monitored to ensure efficiency and safety of operations</p> <p>3.3. Materials no longer required and recoverable timber and equipment are identified and <i>removed</i> in line with site procedures</p> <p>3.4. Tracks, quarries and landings are <i>renovated</i> in line with rehabilitation plan, work order and site procedures</p> <p>3.5. Run-off and drainage channels are established to</p> |

ELEMENT**PERFORMANCE CRITERIA**

approximate natural drain lines in line with rehabilitation plan

3.6. Renovation outcomes are recorded and reported in line with site procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- Technical skills sufficient to use and maintain relevant tools and equipment; recognise common diseases, pests and nutritional deficiencies; rehabilitate tracks, quarries and landings over the required range of site and weather conditions, terrain and restoration requirements
- Communication skills sufficient to use appropriate communication and interpersonal techniques with colleagues and bodies/groups external to the organisation
- Literacy skills sufficient to record and report workplace information; maintain documentation; read and interpret written material and complex information, including charts, tables and weather maps
- Numeracy skills sufficient to measure, estimate and calculate time required to complete a task
- Problem solving skills sufficient to identify problems; demonstrate appropriate response procedures

Required knowledge

- Applicable commonwealth, state or territory legislation, regulations, standards, codes of practice and established safe practices relevant to the full range of processes for rehabilitating tracks, quarries and landings
- Environmental protection requirements, including the safe disposal of waste material
- Organisational and site standards, requirements, policies and procedures for rehabilitating tracks, quarries and landings
- Environmental risks and hazards
- Using material effectively and efficiently
- Established communication channels and protocols
- Problem identification and resolution strategies, and common fault finding techniques
- Types of tools and equipment, and procedures for their safe use and maintenance

REQUIRED SKILLS AND KNOWLEDGE

- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording and reporting workplace information

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence that they can safely and effectively establish rehabilitation requirements and plan and carry out the renovation of tracks, quarries and landings within applicable regulatory and organisational requirements

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

The evidence required to demonstrate competency in this unit must be relevant to, and satisfy, all of the requirements of the elements of this unit and include demonstration of:

- following applicable commonwealth, state or territory legislative and regulatory requirements and codes of practice relevant to rehabilitating tracks, quarries and landings
- following organisational policies and procedures relevant to rehabilitating tracks, quarries and landings
- establishing restoration and revegetation requirements and planning rehabilitation operations of tracks, quarries and landings
- safely and efficiently using equipment to renovate tracks, quarries and landings and establish run-off drainage channels

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 required knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to follow relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to undertaking work applicable to this unit
 - specifications and work instructions

EVIDENCE GUIDE

Method of assessment

- Assessment must satisfy the endorsed Assessment Guidelines of the FPI11 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 required knowledge
- Assessment must be by direct observation of tasks, with questioning on required knowledge and it must also reinforce the integration of employability skills
- Assessment methods must confirm the ability to access and correctly interpret and apply the required 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, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

RANGE STATEMENT

OHS requirements:

are to be in line with applicable commonwealth, state or territory legislation and regulations, and organisational safety policies and procedures, and may include:

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

Environmental requirements may include:

- legislation
- organisational policies and procedures
- workplace practices

Legislative requirements:

are to be in line with applicable commonwealth, state or territory legislation, regulations, certification requirements and codes of practice and 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

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

RANGE STATEMENT

| | |
|--|---|
| | processes and standards |
| | <ul style="list-style-type: none">• OHS, emergency and evacuation procedures• ethical standards• recording and reporting requirements• equipment use, maintenance and storage requirements• environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines) |
| Rehabilitating tracks, quarries and landings: | <ul style="list-style-type: none">• may be conducted at forest harvesting site after logging is completed• includes rehabilitation of both landing and tracks over a range of designs and conditions typical of logging requirements in the local area• will be carried out over the full range of operational weather conditions |
| Work order is to include: | <ul style="list-style-type: none">• instructions for the rehabilitation of tracks, quarries and landings |
| | and may also include: |
| | <ul style="list-style-type: none">• instructions for the environmental monitoring of work and procedures• environmental care requirements relevant to the work |
| Appropriate personnel may include: | <ul style="list-style-type: none">• supervisors• clients• colleagues• managers• external authorities |
| Relevant information may include: | <ul style="list-style-type: none">• harvesting plans• environmental requirements• applicable forest practices, codes and management/site instructions |
| Inspection of site includes: | <ul style="list-style-type: none">• determining impacts of harvesting or other operations• identifying natural water flow/water courses• checking for recoverable logs and equipment |
| Communication may include: | <ul style="list-style-type: none">• verbal and non-verbal language• constructive feedback• active listening• questioning to clarify and confirm |

RANGE STATEMENT

| | |
|---|---|
| | <ul style="list-style-type: none"> 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 |
| Environmental protection measures may include: | <ul style="list-style-type: none"> • ground growth • canopy • general forest lean • wind speed and direction • fallen trees • density of trees • ground slope • soil and water protection • ground hazards and obstacles |
| Equipment may include: | <ul style="list-style-type: none"> • wheeled or tracked |
| | and may be: |
| | <ul style="list-style-type: none"> • dozer • front end loader • skidder • grader using bucket or blade attachments |
| Rehabilitation operations include: | <ul style="list-style-type: none"> • returning the environment to its original or near to original condition • minimising the impact on the environment through the rehabilitation process |
| Removed may include: | <ul style="list-style-type: none"> • recycling materials and recoverable timber no longer required • re-using materials and recoverable timber no longer required • redirecting materials no longer required for energy recovery |
| Renovated may include: | <ul style="list-style-type: none"> • pulling out and removing construction materials • breaking up ramps and constructions • filling and ripping surfaces • breaking up and burying crushed rock, sand and other stabilising materials • spreading and compacting top soil over base materials |

Unit Sector(s)

Not Applicable

Competency field

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|-------------------------|------------------|
| Competency field | Common Technical |
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