



Australian Government

Department of Education, Employment and Workplace Relations

CPCCST2005A Carry out load slinging of off-site materials

Release: 1

CPC CST2005A Carry out load slinging of off-site materials

Modification History

Not Applicable

Unit Descriptor

Unit descriptor This unit specifies the outcomes required to sling and move materials under supervision.

Application of the Unit

Application of the unit This unit of competency supports the achievement of skills and knowledge to carry out load slinging of off-site materials, which may include working with others and as a member of a team.

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units

CPC COHS2001A	Apply OHS requirements, policies and procedures in the construction industry
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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. Plan and prepare.	1.1. Work instructions and operational details are obtained using relevant information, confirmed and applied for planning and preparation purposes. 1.2. Safety (OHS) requirements are followed in accordance with safety plans and policies. 1.3. Signage and barricade requirements are identified and implemented. 1.4. Tools and equipment selected to carry out tasks are consistent with job requirements, checked for serviceability and any faults are rectified or reported prior to commencement. 1.5. Material quantity requirements are calculated in accordance with plans, specifications and quality requirements. 1.6. Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use. 1.7. Environmental requirements are identified for the project in accordance with environmental plans and statutory and regulatory authority requirements, and are applied.
2. Move, locate and secure load.	2.1. Shifting/anchorage points are located and identified and slings, tackles, associated lifting gear and tools are selected consistent with needs of task. 2.2. Shifting equipment and tools are inspected and damaged work items are reported to supervisor. 2.3. Strongbacks/stiffeners are positioned and securely attached as required. 2.4. Load is safely slung, connected to lifting gear and packing is secured to protect load. 2.5. Destination location is prepared to receive load. 2.6. Load is stood vertically if necessary, safely moved to required location and secured in position.
3. Clean up.	3.1. Slings, associated lifting equipment and packing are removed and loose debris and waste material removed and disposed of safely. 3.2. Slings, lifting equipment and tools are cleaned, maintained and safely stored. 3.3. Necessary documentation is completed.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

Required skills for this unit are:

- ability to recognise procedures, respond to change, and contribute to workplace responsibilities such as current work site environmental/sustainability frameworks or management system
- communication skills to:
 - communicate with team
 - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
 - follow instructions
 - report damaged work items to supervisor
 - use and interpret non-verbal communication, including the use of hand signals
 - use language and concepts appropriate to cultural differences
- innovation skills to select appropriate tools and equipment, respond to workplace challenges and put ideas into action
- numeracy skills to workplace requirements
- planning and organisational skills to identify requirements, apply relevant resources and sequence tasks
- problem solving skills to recognise and take action to rectify minor faults and problems
- teamwork skills to be able to work with others to action tasks and relate to people from a range of cultural, social, ethnic backgrounds and with varying physical and mental abilities.

Required knowledge

Required knowledge for this unit is:

- basic hand signalling techniques
- basic tools, plant and equipment related to materials handling
- hazard identification and prevention methods to be adopted
- job safety analysis (JSA) and safe work method statements
- measurement techniques relevant to slinging and placing materials
- techniques for stacking and storing materials safely and for allowing egress to others and easy access to materials for retrieval
- types and characteristics of materials used in stonemasonry work
- workplace and equipment safety requirements.

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

This unit of competency could be assessed in the workplace or a close simulation of the workplace environment, provided that simulated or project-based assessment techniques fully replicate construction workplace conditions, materials, activities, responsibilities and procedures.

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

A person who demonstrates competency in this unit must be able to sling and move materials, providing evidence of the ability to:

- comply with workplace and equipment safety requirements of state and territory regulatory authorities
- comply with organisational policies and procedures within the context of handling materials and using valuable equipment
- select and use appropriate lifting equipment to suit load movement process
- connect lifting equipment safely and effectively
- apply safe and effective techniques to carry out movement and placement of materials
- use appropriate communication techniques with others to assist with moving a load, ensuring safe and effective work site operations.

Context of and specific resources for assessment

This competency is to be assessed using standard and authorised work practices, safety requirements and environmental constraints.

Assessment of essential underpinning knowledge will usually be conducted in an off-site context.

Assessment is to comply with relevant regulatory or Australian standards' requirements.

Resource implications for assessment include:

- workplace
- plant and equipment relative to activity

EVIDENCE GUIDE

- tools and equipment appropriate to materials and activities
- materials appropriate to proposed activities.

Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support.

Method of assessment

Assessment methods must:

- satisfy the endorsed Assessment Guidelines of the Construction, Plumbing and Services Training Package
- include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- reinforce the integration of employability skills with workplace tasks and job roles
- confirm a reasonable inference that competency is not only verified under the particular assessment circumstance, but is able to be transferred to other circumstances and environments.

Validity and sufficiency of evidence requires that:

- competency will need to be demonstrated over a period of time reflecting the scope of the role and practical requirements of the workplace
- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice with a decision on competency only taken at the point when the assessor has complete confidence in the person's demonstrated ability and applied knowledge
- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence.

EVIDENCE GUIDE

Assessment processes and techniques should, as far as is practical, take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed.

Supplementary evidence of competency may be obtained from relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

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.

1.1. ***Information*** includes:

- diagrams or sketches
- instructions issued by authorised organisational or external personnel
- manufacturer specifications and instructions, where specified
- material safety data sheets (MSDS)
- memos
- regulatory and legislative requirements pertaining to load slinging
- relevant Australian standards
- safe work procedures relating to load slinging
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.

1.2. ***Planning and preparation*** include:

- assessment of conditions and hazards
- determination of work requirements and safety plans and policies
- equipment defect identification

RANGE STATEMENT

1.3. **Safety (OHS)** is to be in accordance with state and territory legislation and regulations and project safety plan and may include:

- work site inspection.
- emergency procedures, including extinguishing fires, organisational first aid requirements and evacuation
- hazard control
- hazardous materials and substances
- organisational first aid
- PPE prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including the conduct of operational risk assessment and treatments associated with:
 - concealed services (water, power and gas)
 - lighting
 - restricted access barriers
 - traffic control
 - work site visitors and the public
 - working at heights
 - working in confined spaces
 - working in proximity to others
- use of firefighting equipment
- use of shifting plant and equipment
- use of tools and equipment
- workplace environmental requirements and safety.

1.4. **Tools and equipment** include:

- chain slings and hooks
- lifting beams
- lifting clutches
- mobile pendant operated cranes
- nylon ropes
- packing
- ropes
- shackles and eye bolts
- spanners
- strongbacks.

1.5. **Quality requirements** include:

- control of handling procedures
- quality of materials
- relevant regulations, including:
 - Australian standards
 - internal company quality policy and

RANGE STATEMENT

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| <p>1.6. Materials include:</p> <p>1.7. Environmental requirements include:</p> <p>1.8. Statutory and regulatory authority includes:</p> <p>1.9. Shifting equipment refers to:</p> | <ul style="list-style-type: none"> standards • manufacturer specifications where specified • workplace operations and procedures • use and maintenance of equipment. • crates of fittings • packs of metal sections • packs of pipe lengths • packs of sheet material • packs of timber • pallets of bagged material • pre-cast concrete • steel sections • stone sections. • waste management • dust and noise • vibration • clean-up management. • federal, state and local authorities administering applicable Acts, regulations and codes of practice. • equipment excluding that requiring a certificate of competency for operation as specified by state and territory licensing requirements. |
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Unit Sector(s)

Unit sector Construction

Co-requisite units

Co-requisite units Nil

Functional area

Functional area