



Australian Government

Department of Education, Employment and Workplace Relations

CPCCCO3014A Conduct concrete agitator truck operations

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit of competency specifies the outcomes required to conduct concrete agitator truck operations in support of construction projects.

The unit covers planning and preparing for work, conducting operational checks, the safe and effective operation of the concrete agitator truck and associated equipment for a range of mandatory tasks, and the conduct of operator maintenance and work finalisation activities.

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Application of the Unit

This unit of competency supports the attainment of the understanding and skills to conduct concrete agitator truck operations, which may include working with others and as a member of a team.

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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

CPCCOHS1001A

Work safely in the
construction industry

Employability Skills Information

This unit contains employability skills.

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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.

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Elements and Performance Criteria

Elements and Performance Criteria

Element	Performance Criteria
1 Plan and prepare.	<p>1.1 Work instructions and operational details are obtained using relevant information , confirmed and applied for planning and preparation purposes.</p> <p>1.2 Safety (OHS) requirements are followed in accordance with safety plans and policies.</p> <p>1.3 Signage and barricade requirements are identified and implemented.</p> <p>1.4 Tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported prior to commencement.</p> <p>1.5 Materials quantity requirements are calculated in accordance with plans, specifications and quality requirements .</p> <p>1.6 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.</p>

- 1.7 **Environmental requirements** are identified for the project in accordance with environmental plans and regulatory obligations and applied.
- 2 Conduct machine pre-operational checks.
 - 2.1 Pre-start, start up, park and shut-down procedures are carried out in accordance with manufacturer and site specific requirements.
 - 2.2 Vehicle controls and functions, including steering, brakes and manoeuvrability, are checked for serviceability and any faults are rectified or reported.
 - 2.3 **Agitator controls** and functions are checked for serviceability and any faults are rectified or reported.
- 3 Operate the agitator truck.
 - 3.1 Site hazards associated with truck operations are identified and safe operating techniques are used to minimise risk.
 - 3.2 Engine power is managed to ensure efficiency of concrete agitator truck movements and to minimise damage to the engine and gears.
 - 3.3 Engine power is coordinated with gear selection ensuring smooth transition and operation within torque range.
 - 3.4 Truck is operated to work instructions in accordance with company operating procedures.
 - 3.5 Road and traffic conditions are constantly monitored taking into account road standards, traffic flow, distance and load, ensuring no injury to people or damage to property, equipment, loads and facilities.
 - 3.6 Truck is brought to a halt smoothly, minimising the wear and tear on vehicle using the engine retarder, gears and brakes.
- 4 Load, transport and discharge concrete.
 - 4.1 Concrete agitator truck is positioned at load and **discharge points** with a minimum of manoeuvres.
 - 4.2 Concrete agitator truck is loaded to within authorised carrying capacity of **concrete mixes** to suit the site and task conditions.

- 4.3 Concrete agitator truck is moved from loading to discharge point safely and smoothly avoiding surge and sway.
 - 4.4 **Concrete is discharged** in accordance with task specifications.
 - 4.5 Discharge systems, including chutes and adaptors, are monitored and maintained throughout the operations.
- 5 Carry out driver maintenance.
- 5.1 Concrete agitator truck is safely parked, prepared for **maintenance** and shut down as per manufacturers' manual and organisational requirements.
 - 5.2 Inspection and fault finding are conducted in accordance with manufacturer specifications and organisational requirements.
 - 5.3 Defective parts are removed and replaced safely and effectively according to manufacturers' manual and organisational requirements.
 - 5.4 Regular programmed maintenance tasks are carried out in accordance with manufacturer and organisational requirements.
- 6 Clean up.
- 6.1 Work area is cleared and materials disposed of, reused or recycled in accordance with project environmental management plan.
 - 6.2 Vehicle, bowl, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturer recommendations and standard work practices.

Required Skills and Knowledge

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

Required skills

Required skills for this unit are:

communication skills to:

evaluating own actions and making judgments about performance and necessary improvements

identifying and accurately reporting to appropriate personnel any faults in tools, equipment or materials

organisational skills, including the ability to plan and set out work

recognising procedures, following instructions, responding to change and contributing to workplace responsibilities, such as current work site environmental and sustainability frameworks or management systems

teamwork skills to coordinate own work with others to action tasks and relate to people from a range of cultural and ethnic backgrounds and with varying physical and mental abilities

technological skills to:

determine requirements

enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand

follow instructions

read and interpret:

report faults

use language and concepts appropriate to cultural differences

use and interpret non-verbal communication, such as hand signals

documentation from a variety of sources

drawings and specifications

use a range of mobile technology, such as two-way radio and mobile phones

voice and hand signals to access and understand site-specific instructions.

Required knowledge

Required knowledge for this unit is:

concrete agitator truck systems, characteristics, technical capabilities and limitations

construction activity sequences related to concreting operations

general construction terminology
job safety analysis (JSA) and safe work method statements
levelling techniques
material safety data sheets (MSDS)
materials handling methods
operational, maintenance and basic diagnostic procedures
processes for interpreting engineering drawings and sketches
quality requirements
safe operating techniques in all terrain
site and equipment safety requirements
site isolation and traffic control responsibilities and authorities
state or territory regulatory requirements related to concrete agitator truck operations.

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 provide evidence of the ability to:

locate, interpret and apply relevant information, standards and specifications

comply with site safety plan and OHS legislation, regulations and codes of practice applicable to workplace operations

comply with organisational policies and procedures including quality requirements

communicate and work effectively and safely with others

conduct concrete agitator truck operations, to be performed over not less than three shifts and two different sites and are to include the tasks of:

positioning vehicle at the load point

loading and transporting concrete

discharging concrete at work site to specification

discharging directly to site

discharging to wheelbarrow and hopper

applying emergency procedures

conducting authorised operator maintenance.

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:

an induction procedure and requirement

realistic tasks or simulated tasks covering the mandatory task requirements

relevant specifications and work instructions

tools and equipment appropriate to applying safe work practices

support materials appropriate to activity

workplace instructions relating to safe work practices and addressing hazards and emergencies

material safety data sheets

research resources, including industry related systems information.

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 Integrated Framework 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 that competency is verified and 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 the 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.

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.

Information includes:

diagrams or sketches

instructions issued by authorised organisational or external personnel

manufacturer specifications and instructions, where specified

MSDS

memos

regulatory and legislative requirements pertaining to operation of concrete agitator trucks on construction sites

relevant Australian standards

safe work procedures relating to operation of concrete agitator trucks on construction sites

signage

verbal, written and graphical instructions

work bulletins

work schedules, plans and specifications.

Planning and preparation include:

assessment of conditions and hazards

determination of work requirements and safety plans and policies

equipment defect identification

work site inspection.

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

emergency procedures, including extinguishing fires, organisational first aid requirements and evacuation

handling activities that may require the assistance of others or the use of manual or mechanical lifting devices where size, weight or other issues, such as a disability are a

factor

hazard control

hazardous materials and substances

hazards and risks including uneven/unstable terrain, trees, fires, overhead services, bridges, buildings, excavations, traffic, embankments, structures and hazardous materials

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:

safe parking practices, including ensuring access ways are clear, equipment/ machinery is away from overhangs and refuelling sites, safe distance from excavations, and secured from unauthorised access or movement

use of firefighting equipment

use of tools and equipment

workplace environmental requirements and safety.

earth leakage boxes

lighting

power cables, including overhead service trays, cables and conduits

restricted access barriers

surrounding structures

traffic control

trip hazards

work site visitors and the public

working at heights

working in confined spaces

working in proximity to others

Tools and equipment include:

hand tools and maintenance equipment associated with the particular concrete agitator truck.

Quality requirements include:	internal company quality policy and standards manufacturer specifications, where specified relevant regulations, including Australian standards workplace operations and procedures.
Environmental requirements include:	clean-up management dust and noise stormwater management vibration waste management.
Agitator controls :	are related to speed, revolutions, forward and return may be air, mechanical or electrically actuated.
Discharge points :	include: may include into a kibble. directly to site into a wheelbarrow and hopper
Concrete mixes :	may be relatively dry or increasingly wet in order, from wet to dry will include block-fill, pool mix, topping, slab, footing and kerb and guttering.
Discharging concrete means:	movement of concrete from the agitator truck by mechanical/gravity feed through chutes and adaptors of varying sizes.
Maintenance :	includes: may include: authorised servicing cleaning monitoring, recording and reporting faults conducting authorised minor replacements providing assistance to maintenance personnel during maintenance and repair

activities.

Unit Sector(s)

Construction
Construction

Functional Area

empty
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