



**Australian Government**

# **PPMMHV201 Operate mobile crane**

**Release: 1**

# PPMMHV201 Operate mobile crane

## Modification History

| Release   | Comments                                                                                  |
|-----------|-------------------------------------------------------------------------------------------|
| Release 1 | This version released with PPM Pulp and Paper Manufacturing Training Package Version 3.0. |

## Application

This unit of competency describes the skills and knowledge required to plan and safely move loads operating a non-slewing mobile crane with a capacity of less than three tonnes.

The unit applies to production support operators who operate small non-slewing mobile crane in a pulp and/or paper manufacturing facility.

No licensing, legislative or certification requirements apply to this unit at the time of publication. This unit should not be used where load shifting equipment falls under the category for which a high risk work licence is required. Users are advised to check with the relevant regulatory authority for appropriate unit and licensing requirements.

## Pre-requisite Unit

Nil

## Unit Sector

Load Shifting (MHV)

## Elements and Performance Criteria

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                |
| 1. Plan work for moving load                     | 1.1 Identify and plan work according to workplace procedures and health and safety requirements<br>1.2 Identify health and safety hazards, assess risks and identify control measures<br>1.3 Inspect and assess traffic flow and work area conditions for safe operation according to organisational procedures<br>1.4 Determine load characteristics and use appropriate attachments |

| Elements                                                                   | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i>                           | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                            | <p>and gear to move load</p> <p>1.5 Report activities that may affect the safety and efficiency of operations to appropriate personnel</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2. Use controls and operating systems to manage the operation of equipment | <p>2.1 Prepare equipment and fit appropriate attachments</p> <p>2.2 Start equipment to bring to speed according to manufacturer guidelines</p> <p>2.3 Monitor instruments and gauges during start-up and operations to ensure that operation is within manufacturer specifications</p> <p>2.4 Manage power for efficiency of equipment movement and economy of equipment operations</p> <p>2.5 Conduct equipment operations within manufacturer specified torque range</p> <p>2.6 Report faults or damage to equipment to appropriate personnel</p>                                                                                                                                              |
| 3. Locate load and identify load characteristics                           | <p>3.1 Identify and locate load according to instructions</p> <p>3.2 Identify requirements for Safe Working Load (SWL) and Working Load Limit (WLL) of <b>equipment</b></p> <p>3.3 Check load weight and dimensions to ensure they fall within the capacity of the equipment</p> <p>3.4 Follow loading and unloading plans to ensure efficiency and safety of operations</p> <p>3.5 Determine load characteristics and use required loading and unloading procedures</p>                                                                                                                                                                                                                         |
| 4. Move load safely                                                        | <p>4.1 Operate and position equipment using smooth and controlled movements and safe working practices</p> <p>4.2 Undertake manoeuvres within the limits of the equipment and according to manufacturer specifications</p> <p>4.3 Move load to ensure no injury to personnel or damage to equipment or cargo</p> <p>4.4 Maintain continuous communication with personnel assisting operator in load movement operations using appropriate communications technology and procedures</p> <p>4.5 Stop equipment immediately in the event of a safety incident or emergency, and follow workplace emergency procedures</p> <p>4.6 Report safety incidents and emergencies according to workplace</p> |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                  |
|                                                  | procedures and regulatory requirements                                                                                                                                                                                                                                                                                                                  |
| 5. Monitor and operate controls                  | 5.1 Monitor and operate equipment controls according to manufacturer operating instructions<br>5.2 Apply requirements and limitations of control systems and take action according to manufacturer guidelines<br>5.3 Identify and report on control faults<br>5.4 Identify hazards in the work area and adopt appropriate measures to control the risks |
| 6. Stop, shut down and secure equipment          | 6.1 Bring equipment to a controlled halt and shut down without injury to personnel or damage to equipment, loads or facilities according to manufacturer instructions and workplace procedures<br>6.2 Secure equipment according to manufacturer instructions and workplace procedures                                                                  |

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.*

| Skill              | Description                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Numeracy           | <ul style="list-style-type: none"> <li>Estimate the size, shape and special requirements of loads</li> </ul>                                                            |
| Oral communication | <ul style="list-style-type: none"> <li>Communicate clearly with work colleagues and other personnel on site when operating cranes</li> </ul>                            |
| Reading            | <ul style="list-style-type: none"> <li>Interpret information from a range of documentation, including work plans, procedures and manufacturer specifications</li> </ul> |

## Unit Mapping Information

| Code and title current version | Code and title previous version | Comments               | Equivalence status |
|--------------------------------|---------------------------------|------------------------|--------------------|
| PPMMHV201                      | PPMMHV210                       | Changes to unit title, | Not equivalent     |

| Code and title<br>current version | Code and title<br>previous version | Comments                                                                                                                          | Equivalence status |
|-----------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Operate mobile crane              | Operate overhead crane             | elements, performance criteria, foundation skills, performance evidence and knowledge evidence<br><br>Assessment required updated |                    |

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>

# Assessment Requirements for PPMMHV201 Operate mobile crane

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## Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has planned and safely moved loads operating a non-slewing mobile crane with a capacity of less than three tonnes, at least twice in line with required enterprise intervals, including:

- interpreted and followed operational instructions and prioritised work
- used safety accessories, including protective and high visibility safety clothing and electronic communication equipment when operating the mobile crane
- scheduled movements to maintain material flow in mill to required timing
- moved standard and non-standard loads, ensuring load is correctly slung, crane is correctly operated and load is within crane limits, particularly where load measuring devices are fitted
- communicated effectively and used hand signals with others.

## Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- workplace health and safety and emergency procedures and safe working requirements when operating non-slewing mobile crane with a capacity of less than three tonnes
- requirements for safe working load (SWL) and working load limit (WLL) of non-slewing mobile crane with a capacity of less than three tonnes
- operation of work systems, equipment, management and site operating systems for the use of non-slewing mobile crane with a capacity of less than three tonnes
- types of cranes used to shift loads, including applications and procedures and precautions for their use
- marking and numbering systems for cargo, container and goods, including coding, Australian Dangerous Goods (ADG) and International Maritime Dangerous Goods (IMDG) markings

- electronic and other control systems, operation and application to make appropriate adjustments, within level of responsibility.

## Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a pulp and/or paper manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - non-slewing mobile crane with a capacity of less than three tonnes
  - personal protective equipment
- specifications:
  - workplace procedures relevant to operating non-slewing mobile crane, workplace health and safety requirements and emergency responses
  - manufacturer operating instructions for non-slewing mobile crane
- relationships:
  - personnel on site.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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