



**Australian Government**

# **MSMPMC313 Schedule, cut and bend reinforcement**

**Release: 1**

## MSMPMC313 Schedule, cut and bend reinforcement

### Modification History

Release 1. New unit. Supersedes and is equivalent to PMC552050 Schedule, cut and bend reinforcement

### Application

This unit describes the skills and knowledge required to schedule, cut and bend reinforcement.

This unit applies to operators who are required to take responsibility for own outputs and follow established procedures to interpret plans, prepare the reinforcement and organise quality testing. Operators are also required to work autonomously and apply their own judgement to interpret information; monitor processes; identify and address routine and non-routine problems and control hazards.

This unit applies to an individual working alone or as part of a team or group and in liaison with other shift team members, team leader and supervisor.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

### Pre-requisite Unit

Nil

### Competency Field

Operations

### 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. Interpret plan, steel drawing and specifications | 1.1 Identify steel sizes and types required according to plan and specifications<br>1.2 Interpret steel dimensions<br>1.3 Check cover to steel is adequate and report if not<br>1.4 Determine steel lengths allowing for bends and bar thickness<br>1.5 Follow instructions and requirements for cage assembly |
| 2. Prepare materials and                            | 2.1 Read job specification and determine equipment and material                                                                                                                                                                                                                                                |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                    |
| equipment                                        | requirements<br>2.2 Check availability of bars and mesh<br>2.3 Set up templates and equipment in compliance with job specifications and work instructions<br>2.4 Cut, bend and tag reinforcement                                                                                                                                          |
| 3. Organise quality testing of reinforcement     | 3.1 Arrange for samples of work in progress to be verification tested<br>3.2 Check reinforcement using go and no-go gauges, dimension tolerance, cosmetics and level of standards specification<br>3.3 Implement test requirements in accordance with standard operating procedures (SOPs) and any legislative or regulatory requirements |
| 4. Rectify routine problems                      | 4.1 Identify and rectify faults and equipment failure<br>4.2 Maintain records and log books of equipment operations<br>4.3 Identify non-routine problems and report to designated person                                                                                                                                                  |
| 5. Control hazards                               | 5.1 Identify reinforcement hazards<br>5.2 Assess the risks arising from those hazards<br>5.3 Implement measures to control those risks                                                                                                                                                                                                    |

## Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Numeracy skills to:

- do basic arithmetical manipulations, including additions, subtractions, divisions, fractions and percentages
- make calculations from 'steel drawings'
- measure reinforcement to specification

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

## Unit Mapping Information

Release 1. New unit. Supersedes and is equivalent to PMC552050 Schedule, cut and bend reinforcement

## Links

Companion Volume Implementation Guides are available at VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>