



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 1.2 Interpret steel dimensions 1.3 Check cover to steel is adequate and report if not 1.4 Determine steel lengths allowing for bends and bar thickness 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 2.2 Check availability of bars and mesh 2.3 Set up templates and equipment in compliance with job specifications and work instructions 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 3.2 Check reinforcement using go and no-go gauges, dimension tolerance, cosmetics and level of standards specification 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 4.2 Maintain records and log books of equipment operations 4.3 Identify non-routine problems and report to designated person
5. Control hazards	5.1 Identify reinforcement hazards 5.2 Assess the risks arising from those hazards 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>

Assessment Requirements for MSMPMC313 Schedule, cut and bend reinforcement

Modification History

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

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- scheduled, cut, bent and tagged reinforcement on at least 1 occasion, including:
 - monitoring the following key variables to ensure product integrity and conformance to specification:
 - shape
 - dimensions
 - dimensional tolerance
 - steel coverage
 - recognising possible causes of the following routine problems:
 - raw material variations
 - equipment malfunctions
 - design problems
 - fabrication errors.
 -

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- common types of reinforcement
- legislative or regulatory requirements relevant to job role
- automatic and semi-automatic reinforcement and ancillary equipment, including:
 - functions, limitations
 - principles of operation
 - the potential effects of equipment operation in relation to quality of product
- validation of test certificates
- reinforcement design drawings, schedules and tags
- the potential effects of variations in raw materials in relation to quality of product
- quality testing requirements
- routine problems, their probable causes and relevant corrective actions
- reinforcement hazards and:

- their possible causes
- potential consequences
- risk control procedures.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - reinforcement equipment and ancillary equipment
 - plans, specifications, procedures and job sheets
- modelling of industry operating conditions, including:
 - routine and non-routine problems.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume Implementation Guides are available at VETNet -

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