

PMC552050 Schedule, cut and bend reinforcement

Release: 1



PMC552050 Schedule, cut and bend reinforcement

Modification History

Release 1. Supersedes and is equivalent to PMC552050C Schedule, cut and bend reinforcement

Application

This unit of competency covers the skills and knowledge required to schedule, cut and bend reinforcement.

This unit of competency applies to operators who are required to interpret plans, prepare the reinforcement, organise quality testing and identify and rectify routine problems.

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

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Operations

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Interpret 1.1 plan/steel drawing/specifica 1.2 tions

1.1 Recognise steel sizes and types required

1.2 Interpret steel dimensions

1.3 Check cover to steel is adequate and report if not

Approved Page 2 of 7

		1.4	Determine steel lengths allowing for bends and bar thickness
		1.5	Follow instructions/requirements for cage assembly
2	Prepare materials and equipment	2.1	Determine requirements prior to fabricating
		2.2	Read job specification/plan and determine equipment and material requirements
		2.3	Check availability of bars and mesh
		2.4	Set up templates and equipment in compliance with plan/specifications and work instructions
		2.5	Cut, bend and tag reinforcement
3	Organise quality testing of reinforcement	3.1	Arrange for samples of work in progress to be verification tested if specified
		3.2	Check reinforcement using go 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 the range of faults that can occur during the operation
		4.2	Determine and rectify fault causes in accordance with procedures/work instructions
		4.3	Identify and rectify equipment failure causes in accordance with procedures/work instructions
		4.4	Make sure appropriate records and log books of equipment operations are maintained to meet procedures/work instructions
		4.5	Identify non-routine problems and report to designated person

Approved Page 3 of 7

- 5 **Control hazards** 5.1 Identify h
 - 5.1 Identify hazards from the job to be done
 - 5.2 Identify other hazards in the work area
 - 5.3 Assess the risks arising from those hazards
 - 5.4 Implement measures to control those risks in line with procedures

Foundation Skills

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

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Approved Page 4 of 7

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework

The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used.

Applicable legislation, regulations, standards and codes of practice include:

- health, safety and environmental (HSE) legislation, regulations and codes of practice relevant to the workplace, equipment and production processes and hazardous materials
- Australian/international standards relevant to the materials being used and products being made
- any relevant licence and certification requirements.

All operations to which this unit applies are subject to stringent HSE requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and such requirements the legislative requirements take precedence.

Procedures

All operations must be performed in accordance with relevant procedures.

Procedures may be written, verbal, visual, computer-based or in some other form. They include one or any combination of:

- job cards
- emergency procedures
- work instructions
- SOPs
- safe work method statements (SWMS)
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant.

Tools and equipment

Tools and equipment include:

one or more of:

Approved Page 5 of 7

- automatic reinforcement machines
- semi-automatic reinforcement machines
- ancillary equipment that is integral to the process.

Problems

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of:

- dimensions and positions of fittings and lugs as they affect reinforcement dimension and shape
- incorrect cover of steel
- predicting final size and shape of bent bar reinforcement.

Known solutions are drawn from one or more of:

- procedures
- training
- remembered experience.

Non-routine problems must be reported according to according to relevant procedures.

Hazards

Hazards must be identified and controlled. Identifying hazards requires consideration of:

- high temperatures
- smoke, dust, vapours or other atmospheric hazards
- weight, shape, volume of materials to be handled
- hazardous products and materials
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- electricity
- gas
- gases and liquids under pressure
- noise
- rotational equipment or vibration
- plant services (steam, condensate, cooling water, etc)
- structural hazards
- equipment failures
- machinery, equipment and product mass
- limited head spaces or overhangs
- working at heights

Approved Page 6 of 7

- working in restricted or confined spaces
- other hazards that might arise.

Records and reports

Records and Records include one or more of:

- log books/sheets
- electronic records
- job/work sheets
- other records used for the smooth running of the plant.

Reports include one or more of:

- paper or electronic-based logs and reports
- verbal/radio reports
- reporting items found which require action.

Unit Mapping Information

Release 1. Supersedes and is equivalent to PMC552050C Schedule, cut and bend reinforcement

Links

MSA Training Package Implementation Guides - http://mskills.org.au/training-packages/info/

Approved Page 7 of 7