

Assessment Requirements for PMC552056 Assemble, fabricate and place reinforcement

Release: 1



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Modification History

Release 1. Supersedes and is equivalent to PMC552056B Assemble, fabricate and place reinforcement

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and demonstrate the ability to:

- read and interpret 'steel drawings', reinforcement schedules, job sheets, procedures, material labels and safety information
- set up equipment and materials
- assemble/fabricate and fix reinforcement to meet product quality and production output specifications
- monitor key variables, including:
 - shape
 - dimensions
 - dimensional tolerance
 - grade of steel
 - · placement of fittings and lifting lugs
 - steel coverage
 - security/stability of fixing reinforcement in place
 - minimum lap sizes
 - product integrity and general conformance to specification
- make adjustments to meet product quality and production output specifications
- identify hazards and apply relevant hazard controls
- apply safety procedures
- · recognise out-of-specification products, process problems and materials faults
- recognise routine and non-routine problems
- identify when the operator is able to rectify problems, when assistance is required and who is the appropriate source for assistance
- take action to resolve problems or report them to appropriate personnel
- distinguish between possible causes of routine problems, including:
 - raw material variations
 - equipment malfunctions
 - design problems
 - fabrication errors
- communicate effectively with team/work group and supervisors
- complete workplace records
- do basic arithmetical manipulations, including additions, subtractions, divisions, fractions and percentages
- make calculations from 'steel drawings'.

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Knowledge Evidence

Must provide evidence that demonstrates knowledge relevant to their job sufficient to operate under routine only supervision and to solve routine problems, including knowledge of:

- common types and application of reinforcement
- functions, limitations and principles of operation of automatic and semi-automatic reinforcement equipment
- predicting final shape/dimension based on bar size/type and bend radius
- design factors
- fabrication methods
- validation of test certificates
- reinforcement design drawings
- reinforcement tags
- basic physics, and where appropriate chemistry, relevant to the equipment/process/materials
- the potential effects of variations in raw materials and equipment operation in relation to quality of product
- factors which may affect product quality or production output and appropriate remedies
- · routine problems, their probable causes and relevant corrective actions
- organisation procedures relevant to the work environment/job role
- hierarchy of control
- hazards that may arise in the job/work environment and:
 - their possible causes
 - potential consequences
 - appropriate risk controls.

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Assessment Conditions

- The unit should be assessed holistically and the judgement of competence shall be based on a holistic assessment of the evidence.
- The collection of performance evidence:
 - should occur over a range of situations which include typical disruptions to normal, smooth operation of an operating plant
 - will typically include a supervisor/third-party report or other evidence, focusing on
 consistent performance and problem recognition and solving. A supervisor/third-party
 report must be prepared by someone who has a direct, relevant, current relationship
 with the person being assessed and who is in a position to form a judgement on
 workplace performance relevant to the unit of competency
 - must include the use of an appropriate industrial item/s of equipment requiring demonstration of operation, start-up and shutdown procedures and responding to problems
 - may use industry-based simulation for all or part of the unit particularly where safety, lack of opportunity or significant cost is an issue.
- Assessment should occur in operational workplace situations. Where this is not possible or
 where personal safety or environmental damage are limiting factors assessment must
 occur in a sufficiently rigorous simulated environment that reflects realistic operational
 workplace conditions. This must cover all aspects of workplace performance, including
 environment, task skills, task management skills, contingency management skills and job
 role environment skills.
- Assessment in a simulated environment should use evidence collected from demonstration of skills and one or more of:
 - · walk-throughs
 - pilot plant operation
 - industry-based case studies/scenarios
 - 'what ifs'.
- Knowledge evidence may be collected concurrently with performance evidence (provided a record is kept) or through an independent process such as workbooks, written assessments or interviews (provided a record is kept).
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.
- The regulatory framework will be reflected in workplace policies and procedures and is not required to be independently assessed.
- Foundation skills are integral to competent performance of the unit and should not be assessed separately.
- Assessors must satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator.
- In addition the assessor or anyone acting in subject matter expert role in assessment shall
 demonstrate both technical competency and currency. If the assessor cannot demonstrate
 technical competency and currency they shall assess with a subject matter expert who
 does meet these requirements.
- Technical competence can be demonstrated through one or more of:

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- relevant VET or other qualification/Statement of Attainment
- appropriate workplace experience undertaking the type of work being assessed under routine and non-routine conditions
- appropriate workplace experience supervising/evaluating the type of work being assessed under routine and non-routine conditions
- Currency can be demonstrated through one or more of:
 - being currently employed undertaking the type of work being assessed
 - being employed by the organisation undertaking the type of work being assessed and having maintained currency in accordance with that organisation's policies and procedures
 - having consulted/had contact with an organisation undertaking the type of work being assessed within the last twelve months, the consultation/contact being related to assessment
 - conducting on the job training/assessments of the type of work being assessed
 - being an active member of a relevant professional body and participating in activities relevant to the assessment of this type of work.

Links

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

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