



Australian Government

CPCCSF2005 Arc weld reinforcement steel

Release: 2

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Modification History

- Release 2 Updated reference to general construction induction training program.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCCSF2005A Arc weld reinforcement steel.
Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to arc weld reinforcement to non-load bearing structural components as part of the construction process. It does not include specialist welding techniques.

It includes planning and preparing for the work, setting up for welding, welding the reinforcement, checking the reinforcement and completing clean-up activities.

It applies to those who work under the direction of more experienced workers to arc weld reinforcement steel.

Completion of the general construction induction training program, specified in the Safe Work Australia model *Code of Practice: Construction Work*, is required by anyone carrying out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

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

Pre-requisite Unit

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

Unit Sector

Steelfixing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

- | | | |
|--|-----|---|
| 1 Plan and prepare to arc weld reinforcement steel. | 1.1 | Read work order and associated documentation and clarify work tasks with relevant persons. |
| | 1.2 | Plan all work to comply with relevant legislation, regulations, standards, codes, work health and safety (WHS), environmental and workplace requirements. |
| | 1.3 | Identify hazards and determine risk controls. |
| | 1.4 | Select plant, tools and equipment, check for serviceability and rectify or report any faults. |
| | 1.5 | Calculate materials quantities. |
| 2 Prepare work area to arc weld reinforcement steel. | | |
| | 2.1 | Erect required safety signage and barricades and fit personal protective equipment (PPE). |
| | 2.2 | Obtain, prepare, and safely handle materials and locate them ready for use. |
| | 2.3 | Select fire extinguisher and locate so it is readily accessible before and during operations. |
| | 2.4 | Clean area of flammable material, scale and loose residual debris from reinforcement before welding. |
| 3 Arc weld reinforcement steel. | | |
| | 3.1 | Weld reinforcement in accordance with job specifications and workplace requirements. |
| | 3.2 | Carry out tack welds to meet specifications relating to the diameter of the bar. |
| | 3.3 | Carry out welding at the required distance from bends or re-bends of reinforcement bars. |
| 4 Check reinforcement before use. | | |
| | 4.1 | Check location and position of reinforcement and fixing ties for accuracy. |
| | 4.2 | Check depth of coverage, clearance, spacing and overlap before use. |
| 5 Clean up. | | |
| | 5.1 | Clear work area and dispose of, reuse or recycle |

materials in accordance with regulatory and workplace requirements.

- 5.2 Clean, check, maintain and store plant, tools and equipment in accordance with manufacturer and workplace requirements.

Foundation Skills

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

Unit Mapping Information

Supersedes and is equivalent to CPCCSF2005A Arc weld reinforcement steel.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCCSF2005 Arc weld reinforcement steel

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Performance Evidence

To demonstrate competency in this unit, a candidate must meet the elements and performance criteria by arc welding reinforcement steel materials listed below for a minimum of five separate tasks:

- deformed bars
- plain rods
- mesh sheets of plain bars
- mesh sheets of deformed bars.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- workplace and regulatory requirements for arc welding reinforcement steel under applicable Commonwealth, state or territory work health and safety (WHS) legislation and codes of practice:
 - job safety and environmental analyses (JSEAs)
 - safe work method statements (SWMSs)
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades
 - personal protective equipment (PPE)
 - working at heights requirements
 - environmental and worksite safety plans
 - reporting problems
- reinforcing material to be welded:
 - deformed bars
 - plain rods
 - mesh sheets of plain bars

- mesh sheets of deformed bars
- materials:
 - bar chairs
 - deformed bars
 - ligatures and spacer/spreader assemblies
 - mesh sheets of deformed bars
 - mesh sheets of plain bars
 - plain rods
 - welding consumables
 - wire ties
- types, characteristics and limitations of arc welding plant, tools and equipment:
 - manual metal arc welding (MMAW) equipment
 - angle grinders
 - bolt cutters
 - measuring tapes and rules
 - mesh guillotine
 - reinforcement benders
 - tie wire reels
 - wire nippers
- requirements for using arc welding plant, tools and equipment:
 - safe operating procedures
 - operational, maintenance and intermediate diagnostic procedures
 - workplace and equipment safety requirements
- requirements for cleaning up work area, maintaining and storing tools, plant, equipment and materials, and for environmentally friendly waste management.

Assessment Conditions

Assessors must meet the requirements for assessors outlined in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to:

- industry-standard equipment required to perform the tasks specified in the Performance Evidence
- appropriate workplace information and records, including policies, procedures and legislative requirements.

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