



Australian Government

Assessment Requirements for CPCCSF3003 Carry out multistrand post-tensioning

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 CPCCSF3003A Carry out multistrand post-tensioning. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency in this unit, a candidate must meet the elements and performance criteria by carrying out a full multistrand post-tensioning cycle to specification that includes using:

- a multistrand cable of at least 15 strands
- a minimum of 30 m in length
- standard tensioning.

Knowledge Evidence

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

- workplace and regulatory requirements for carrying out multistrand post-tensioning 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 data sheets (SDSs)
 - safety manuals and instructions for tools and equipment
 - signage and barricades
 - personal protective equipment (PPE)
 - working at heights requirements
 - environmental and worksite safety plans
 - reporting problems
- use of multistrand post-tensioning to replace standard reinforcement materials with cables and, through tensioning, provide required strength in a reduced thickness of concrete
- interpretation of post-tensioning plans, including position of cables, height of chairs, cable specifications, number of strands per cable and stressing loads

- types, characteristics and limitations of tools and equipment used to carry out multistrand post-tensioning:
 - angle grinders
 - grouting equipment
 - hacksaws
 - hammers
 - hydraulic power packs
 - measuring tapes and rules
 - multistrand jacks
 - nips
 - spanners
 - staple guns
 - steelfixing reels
 - specialist material-handling gloves
- requirements for using multistrand post-tensioning 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, 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.

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>