



**Australian Government**

# **Assessment Requirements for CPCCSF3003 Carry out multistrand post-tensioning**

**Release: 1**

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## Modification History

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>