



Australian Government

Assessment Requirements for CPC SIL3001

Work with products and materials containing crystalline silica

Release: 1

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Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 8.0.
Newly created unit.

Performance Evidence

A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria and foundation skills of this unit in addition to the specific performance and knowledge evidence described below.

Candidates must be able to:

- demonstrate safe use of personal protective equipment (PPE) and respiratory protective equipment (RPE), including fit checking of disposable and re-usable devices for three different work activities in accordance with manufacturer instructions
- demonstrate three different work activities, such as cutting, drilling or grinding products or materials containing crystalline silica (CS) applying all relevant work health and safety (WHS) considerations, including dust capture and suppression measures, PPE and/or RPE
- demonstrate cleaning and disposal of contaminated products and work area in accordance with WHS procedures.

Knowledge Evidence

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

- hierarchy of risk control measures:
 - elimination
 - substitution
 - isolation
 - engineering controls
 - administrative controls
 - PPE/RPE
- WHS risks working with products and materials containing CS, including features, commonalities and differences between CS and respirable crystalline silica (RCS)
- products containing CS, such as:
 - engineered stone
 - concrete

- mortar
- bricks
- pavers
- tiles
- natural stone
- cement sheeting
- aerated concrete
- silica dust generated by workplace mechanical processes, such as:
 - cutting
 - crushing
 - drilling
 - grinding
 - cutting, grinding and/or abrasive polishing of engineered stone
- additional work activities that can generate respirable silica dust particles, including:
 - excavation, earth moving and drilling plant operations
 - demolition
 - clay and stone processing machine operations
 - paving and surfacing
 - mining, quarrying and mineral ore treating processes
 - tunnelling
 - construction labouring activities
 - brick, concrete or stone cutting; especially using dry methods
 - abrasive blasting (blasting agent must not contain greater than 1 per cent of CS)
 - foundry casting
 - angle grinding, jack hammering and chiselling of concrete or masonry
 - hydraulic fracturing of gas and oil wells
 - pottery making
- worksites where silica dust can be found:
 - manufacturing environment
 - residential construction
 - commercial construction
 - civil construction
- AS/NZ 1715:2009 Selection, use and maintenance of respiratory protective equipment and AS/NZ 1716:2012 Respiratory protective devices, or their equivalent
- Relevant Australian Standards, regulations and codes of practice
- WHS procedures
- relevant legislation governing handling and working with products containing CS, including monitoring requirements
- employer responsibilities and duty of care requirements:
 - consultation and communication processes

- health monitoring
- personal exposure monitoring
- use of PPE and compliant RPE, including disposable and re-usable devices in accordance with AS/NZ 1715:2009 Selection, use and maintenance of respiratory protective equipment and AS/NZ 1716:2012 Respiratory protective devices, or equivalent
- RPE:
 - half-face disposable
 - half-face reusable
 - full-face reusable
 - powered air purifying respirators
- factors affecting fit of PPE and RPE e.g., beards and facial hair
- range of compliant plant, tools and equipment used with products containing CS
- relevant documents with information on safe work practices and technical information on products containing CS, such as:
 - WHS policies and procedures
 - relevant jurisdictional legislation
 - relevant codes of practice
 - safe work method statements (SWMS)
 - job safety and environmental analysis (JSEA)
 - safety data sheets (SDS)
 - product manuals
 - technical specifications
 - product labels
- maintenance requirements on respirators for RCS and for power tools, plant and equipment
- safe cleaning and housekeeping methods with silica dust, including cleaning and managing wet or dry material on clothing
- dust control measures.

Assessment Conditions

Assessment of performance must be undertaken in the workplace or simulated workplace environment. A simulated workplace is one that fully replicates the resources, environment and any time and productivity pressures that exist in the actual workplace, and which meets industry standards for safety and environmental practices.

Candidates must be provided with access to:

- real or simulated worksites
- environmental requirements and sustainability principles
- relevant tasks or work specifications
- appropriate documents, materials, tools, equipment, PPE and P2 half-face disposable and re-usable RPE currently approved for use in industry and worksite

- relevant codes of practice, Australian Standards, legislation, regulations and requirements of workplace policies and procedures as required by Commonwealth, state and territory regulators.

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>