

UNIT CODE	CPCSIL3001
UNIT TITLE	Work with products and materials containing crystalline silica
APPLICATION	<p>This unit of competency specifies the skills and knowledge required to work with products and materials containing crystalline silica and/or respirable crystalline silica.</p> <p>The unit includes planning for and identifying tools and equipment, including personal protective and respiratory protective equipment to be used and worn while working with products containing crystalline silica.</p> <p>The unit also covers the review of working with products containing crystalline silica.</p> <p>The worksite may be static, such as factory or workshop settings or dynamic, such as, commercial and residential settings, construction sites, including demolition sites.</p> <p>Licensing, legislative, regulatory or certification requirements may apply to this unit. Relevant work health and safety state and territory regulatory authorities should be consulted to confirm jurisdictional requirements.</p>
PREREQUISITE UNIT	
COMPETENCY FIELD	Building and Construction
UNIT SECTOR	Building and Construction

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes of the unit.	Performance criteria describe the performance needed to demonstrate achievement of the element.
<p>1. Prepare to handle products containing crystalline silica (CS).</p>	<p>1.1 Identify relevant legislation governing handling and working with products containing CS.</p> <p>1.2 Interpret work requirements and instructions to handle products containing crystalline silica (CS), including Safety Data Sheets.</p> <p>1.3 Identify the product(s) containing CS and their health and safety risk for planned work activities.</p> <p>1.4 Identify work activities generating and increasing risk of exposure to airborne respiratory crystalline silica (RCS) and/or respiratory dust.</p> <p>1.5 Classify level of exposure risk to airborne respiratory crystalline silica (RCS) with planned work activities.</p> <p>1.6 Identify highest level risk control processes for plant, tools and equipment, so far as reasonably practical for planned work in accordance with WHS procedures.</p> <p>1.7 Source and confirm serviceability of relevant plant, tools, equipment, personal protective equipment (PPE) and RPE to perform the specified work.</p>
<p>2. Perform work instructions</p>	<p>2.1 Determine workplace practice to perform work requirements using the product(s) and material(s) containing CS.</p> <p>2.2 Seek feedback from supervisor when CS content of product or material is unknown or unclear.</p> <p>2.3 Apply and monitor risk control measures for planned work.</p> <p>2.4 Fit PPE and/or respiratory protective equipment (RPE) to control identified risk of exposure in accordance with manufacturer's instructions and WHS procedures.</p> <p>2.5 Ensure dust suppression measures are in place in accordance with WHS procedures.</p> <p>2.6 Operate compliant tools and equipment for planned work in accordance with manufacturer's instructions and WHS procedures.</p> <p>2.7 Perform work activities using product(s) and material(s) containing CS.</p>

	2.8 Apply compliant workplace cleaning and hygiene processes on completion of job in accordance with WHS procedures.
3. Review working with products containing crystalline silica.	<p>3.1 Assess effectiveness of the use of relevant tools, equipment and PPE and/or RPE in mitigating exposure risk.</p> <p>3.2 Record and report on workplace health and safety incidents resulting from work activities using the product(s) containing CS.</p> <p>3.3 Record and report on findings of handling and use of products containing crystalline silica, as part of workplace continuous improvement and WHS processes and requirements.</p>

FOUNDATION SKILLS

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

UNIT MAPPING INFORMATION

No equivalent unit.

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TITLE	Assessment Requirements for Work with products containing crystalline silica.
PERFORMANCE EVIDENCE	<p>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.</p> <p>In addition, candidates must be able to:</p> <ul style="list-style-type: none"> • demonstrate safe use of personal protective and respiratory protective equipment, including disposable and re-usable devices for six different work activities • demonstrate working with six different products containing crystalline silica applying all relevant health and safety considerations including dust suppression measures, personal protective and/or respiratory protective equipment.
KNOWLEDGE EVIDENCE	<p>To be competent in this unit, a candidate must demonstrate knowledge of:</p> <ul style="list-style-type: none"> • hierarchy of risk control measures: <ul style="list-style-type: none"> ○ elimination ○ substitution ○ isolation ○ engineering controls ○ administrative controls ○ PPE/RPE • health and safety risks working with products containing crystalline silica • health risks from inhaling respirable crystalline silica (RCS) • products containing crystalline silica, such as: <ul style="list-style-type: none"> ○ concrete ○ mortar ○ bricks ○ pavers ○ tiles ○ natural & manufactured stone bench tops ○ cement sheeting ○ aerated concrete • silica dust generated by workplace mechanical processes, such as:

- crushing
- cutting
- drilling
- grinding
- sawing/polishing natural stone or manufactured products containing silica

- additional work activities that can generate respirable silica dust particles include:
 - 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 crystalline silica)
 - foundry casting
 - angle grinding, jack hammering and chiselling of concrete or masonry
 - hydraulic fracturing of gas and oil wells, and
 - pottery making
- relevant legislation governing handling and working with products containing CS, including monitoring requirements
- employer responsibilities and duty of care requirements
- employee responsibilities and requirements
- compliant use personal protective equipment (PPE) and respiratory protective equipment (RPE), including disposable and re-usable devices
- factors affecting fit of PPE and RPE e.g., beards and facial hair
- range of compliant plant, tools and equipment used with products containing crystalline silica
- maintenance requirements on respirators for RCS and for power tools, plant and equipment
- safe cleaning & housekeeping methods with silica dust
- dust control measures
- engineering & administrative higher-level controls.

<p>ASSESSMENT CONDITIONS</p>	<p>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.</p> <p>Candidates must be provided with access to:</p> <ul style="list-style-type: none"> • both static and dynamic worksites or simulated static and dynamic worksites • environmental requirements and sustainability principles • relevant task or work specifications • appropriate documents, materials, tools, equipment, personal protective equipment (PPE) and respiratory protective equipment (RPE) currently approved for use in industry, as per codes of practice • relevant Australian Standards, legislation, regulations and requirements of workplace policies and procedures as required by Commonwealth, state and territory regulators.
<p>LINKS</p>	<p>Link to Companion Volume Implementation Guide will be inserted here.</p>

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