

UNIT CODE	CPCSIL1001
UNIT TITLE	Prepare to work safely with products and materials containing crystalline silica
APPLICATION	<p>This unit of competency specifies the skills and knowledge required to prepare to work with products and materials containing crystalline silica (CS).</p> <p>The unit requires the person to identify relevant health and safety legislative requirements in order to work safely with products and materials containing CS.</p> <p>This unit includes:</p> <ul style="list-style-type: none"> • identifying products and materials containing CS • applying risk control measures to manage respirable crystalline silica (RCS) • using workplace equipment, including respiratory protective equipment (RPE) and personal protective equipment (PPE); and • applying workplace clean up and storage requirements. <p>Licensing, legislative, regulatory or certification requirements may apply to this unit. Relevant work health and safety (WHS) 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.
1. Identify CS and legislative requirements for working with CS.	1.1 Identify health and safety documents relevant to working with CS. 1.2 Identify and confirm employer duty of care responsibilities and employee responsibilities for own workplace health and safety. 1.3 Identify products and materials containing CS. 1.4 Identify the health effects of exposure to silica dust. 1.5 Identify tasks and processes that may result in exposure to silica dust.
2. Identify hazards and control measures for working with CS.	2.1 Identify the basic principles of risk management when working with CS. 2.2 Identify measures for controlling worksite hazards created by silica dust in accordance with WHS procedures. 2.3 Identify use and limitations of PPE and RPE for working with products and materials containing CS in accordance with manufacturer instructions and WHS procedures. 2.4 Identify requirements of worksite safety signs and symbols relevant to working with CS. 2.5 Identify tools and equipment, including on-tool dust capture devices and dust suppression (with water), for working with products and materials containing CS. 2.6 Identify fit checking requirements for RPE in accordance with manufacturer instructions and WHS procedures. 2.7 Identify processes and tools for clean-up and disposal of silica contaminants in accordance with WHS procedures.
3. Perform workplace clean-up and storage requirements.	3.1 Fit check RPE suitable for use during clean-up activities. 3.2 Clean work area, including dust and slurry, and store non-disposable RPE in accordance with manufacturer instructions.
FOUNDATION SKILLS Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.	

UNIT MAPPING INFORMATION	Newly created unit.
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DRAFT

TITLE	Assessment Requirements for Prepare to work safely with products and materials 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>Candidates must be able to:</p> <ul style="list-style-type: none"> • identify three different work activities that can generate respirable silica dust and the risk management strategies and control measures for each work activity • fit check, using a minimum of a disposable P2 mask, in accordance with manufacturer instructions • clean up and dispose of dust and slurry from a work area in accordance with work health and safety (WHS) procedures.
KNOWLEDGE EVIDENCE	<p>To be competent in this unit, a candidate must demonstrate knowledge of:</p> <ul style="list-style-type: none"> • WHS risks working with products and materials containing crystalline silica (CS) • features, commonalities and differences between CS and respirable crystalline silica (RCS) • hierarchy of control measures: <ul style="list-style-type: none"> ○ elimination ○ substitution ○ isolation ○ engineering controls ○ administrative controls ○ personal protective equipment (PPE)/respiratory protective equipment (RPE) • products and materials containing CS, such as: <ul style="list-style-type: none"> ○ concrete ○ mortar ○ bricks ○ pavers ○ tiles ○ natural and engineered stone benchtops ○ cement sheeting ○ aerated concrete

	<ul style="list-style-type: none"> • silica dust generated by workplace mechanical processes, such as: <ul style="list-style-type: none"> ○ crushing ○ cutting ○ drilling ○ grinding ○ cutting, grinding and/or abrasive polishing of engineered stone • worksites where silica dust can be found: <ul style="list-style-type: none"> ○ manufacturing environment ○ residential construction ○ commercial construction ○ civil construction • employer responsibilities and duty of care requirements: <ul style="list-style-type: none"> ○ communication processes ○ health monitoring ○ personal exposure monitoring • RPE: <ul style="list-style-type: none"> ○ half-face disposable ○ half-face reusable ○ full-face reusable ○ tight-fitting powered air purifying respirators • factors affecting fit of PPE and RPE • safe disposal of CS waste • safe cleaning and housekeeping methods with silica dust • dust control measures • relevant documents with information on safe work practices and technical information on products containing CS, such as: <ul style="list-style-type: none"> ○ 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
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	<ul style="list-style-type: none"> ○ product labels • relevant Australian Standards or their equivalent: <ul style="list-style-type: none"> ○ AS/NZ 1715:2009 Selection, use and maintenance of respiratory protective equipment ○ AS/NZ 1716:2012 Respiratory protective devices.
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ASSESSMENT CONDITIONS	<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"> ▪ appropriate documents, materials, tools, equipment, PPE, P2 half-face disposable and re-usable RPE currently approved for use in industry ▪ relevant codes of practice, Australian Standards, requirements of legislation, regulations and requirements of workplace policies and procedures as required by Commonwealth, state and territory regulators.
LINKS	Link to Companion Volume Implementation Guide will be inserted here.