

UNIT CODE	CPCSIL4001
UNIT TITLE	Supervise and manage work with products and materials generating respirable crystalline silica
APPLICATION	<p>This unit of competency specifies the skills and knowledge required to supervise and manage working with products and materials generating respirable crystalline silica (RCS). The unit includes planning for and supervising the use of compliant plant, tools and equipment to work with products and materials containing crystalline silica.</p> <p>The unit also covers briefing workers on compliant work requirements and covers the establishing of appropriate risk control measures, so far as reasonably practical, for potential exposure to respirable crystalline silica. The unit also covers work practices as part of continuous improvement processes for workplace health & safety when working with products and materials containing crystalline silica.</p> <p>The unit is suitable for persons conducting a business or undertaking (PCBU), employers, supervisors and managers responsible for ensuring the health and safety of employees, contractors and sub-contractors and suppliers when working with products and materials containing crystalline silica.</p> <p>The worksite may be a factory or workshop setting or commercial and residential settings and 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.
1. Plan and prepare for work.	<p>1.1 Check work or design requirements and workplace environment to determine level of exposure to respirable crystalline silica (RCS) from work activity, so far as reasonably practical, in accordance with WHS procedures and manufacturer's instructions.</p> <p>1.2 Arrange air monitoring where required, in accordance with WHS procedures and WHS regulations.</p> <p>1.3 Identify WHS requirements for working with products containing crystalline silica (CS), including Codes of Practice, Guidance Notes, and Safety Data Sheets where available.</p> <p>1.4 Plan for relevant training to develop safe work method statements (SWMS) for the work activity where required.</p> <p>1.5 Identify product(s) and materials containing crystalline silica (CS), including Safety Data Sheets or relevant technical data sheets, where required, to be used relating to work specifications and requirements.</p> <p>1.6 Plan to implement and manage appropriate combination of controls, so far as reasonably practical, in accordance with WHS procedures.</p> <p>1.7 Check serviceability of relevant plant, tools, equipment, personal protective equipment (PPE) and respiratory protective equipment (RPE) for planned workers, to perform specified work, in accordance with WHS policy and procedures.</p> <p>1.8 Determine competency requirements for all workers to perform specified work and arrange for training where applicable, in accordance with WHS procedures.</p> <p>1.9 Prepare details and records for briefings and ongoing workplace communication protocols, including management of contingencies for duration of project.</p>
2. Conduct workplace briefings and consultations.	<p>2.1 Communicate monitoring process of work schedule(s), product(s) and materials to be used and related risk control measures, to all workers for safe and compliant work practices in accordance with WHS procedures.</p>

	<p>2.2 Confirm with all workers designated work roles and responsibilities to perform work and identify health and safety risks of product(s) and materials containing CS.</p> <p>2.3 Consult with all workers communication and reporting protocols, including levels of responsibility and seeking authoritative advice working with products and materials containing CS.</p> <p>2.4 Confirm with all workers the expected compliant use of PPE, RPE and safe work practices working with products and materials containing CS in accordance with manufacturer's instructions and WHS procedures.</p> <p>2.5 Confirm with all workers where RPE fit testing is required and their responsibilities to ensure fit checking of RPE in accordance with manufacturer's instructions and WHS procedures.</p>
3. Implement safety requirements.	<p>3.1 Develop and implement a safe work method statement (SWMS) or hazard control statement for work activity where required.</p> <p>3.2 Assign and confirm worker roles and responsibilities to perform work activity to ensure workers are appropriately trained on RPE use, fit checking, maintenance, serviceability and storage in accordance with manufacturer's instructions and WHS procedures.</p> <p>3.3 Ensure plant, tools and equipment comply with workplace safety requirements and dust capture and extraction, suppression and management.</p> <p>3.4 Apply appropriate combination of control measures in accordance with duration of work activity.</p> <p>3.5 Ensure selection of correct RPE for work activity and conduct or arrange fit testing for operator(s) and other workers where applicable, in accordance with manufacturer's instructions.</p>
4. Manage work site operations.	<p>4.1 Confirm selection, use and serviceability of PPE and relevant respiratory protective equipment, for the type and scope of work with all workers, in accordance with manufacturer's specifications and WHS procedures.</p> <p>4.2 Monitor compliant use of plant, tools and equipment for work activities in managing respirable crystalline silica in accordance with WHS procedures and WHS Regulations.</p>

	<p>4.3 Conduct ongoing monitoring and assessments of levels of adherence to agreed safe work practices and control measures, in accordance with WHS policy and procedures.</p> <p>4.4 Perform appropriate ongoing work site consultations and communicationsto ensure compliance with agreed control measures and WHS procedures working with products and materials containing CS.</p> <p>4.5 Apply appropriate escalation processes where control measures or mitigation strategies are deemed to be ineffective or compromised and/or beyond scope of supervisor, in accordance with WHS policy and procedures.</p> <p>4.6 Coordinate relevant manufacturers, suppliers, installers and relevant other trades, in accordance with work schedule(s), product and material use and relevant risk control measures in place.</p> <p>4.7 Manage work practice adjustments and risk control contingencies due to varying work conditions in accordance with WHS policies and procedures.</p>
5. Oversee compliant clean up, maintenance and storage operations.	<p>5.1 Check completion of clean-up of work area plant, tools, equipment and PPE is performed and dust and slurry disposal complies WHS policy and procedures.</p> <p>5.2 Check RPE is appropriately cleaned, maintenance and storage requirements is performed in accordance with manufacturer's instructions.</p>
6. Review workplace operations.	<p>6.1 Review applied work practices with products and materials containing CS for compliance with WHS procedures, employee health and safety and relevant regulatory requirements.</p> <p>6.2 Assess effectiveness of applied control measures in managing exposure of risk during workplace operations.</p> <p>6.3 Assess the serviceability and effectiveness of the PPE, including respiratory equipment used in mitigating exposure risk for duration of work.</p> <p>6.4 Record, report and recommend for implementation compliance findings in accordance with workplace continuous improvement processes and requirements.</p> <p>6.5 Record, store and report relevant air monitoring and worker health monitoring reports, in accordance with WHS legislation requirements and WHS procedures.</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 Supervise and manage work with products and materials generating respirable 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"> • demonstrate the selection and application of a combination of control measures for different products and materials containing CS, on three separate occasions for the work activity <p>In doing so, the candidate must:</p> <ul style="list-style-type: none"> • demonstrate compliance with selection and use of respirable protective equipment (RPE) for all workers for the work activity • verify fit checking of RPE, training for staff in the use, maintenance, and storage of RPE • verify setup, use and maintenance of plant, tools and equipment with selected control measures.
KNOWLEDGE EVIDENCE	<p>To be competent in this unit, a candidate must demonstrate knowledge of:</p> <ul style="list-style-type: none"> • hierarchy of control measures: <ul style="list-style-type: none"> ○ elimination ○ substitution ○ isolation ○ engineering controls ○ administrative controls ○ PPE/RPE • health risks working with products and materials containing crystalline silica • health effects from inhaling RCS • products containing crystalline silica, such as: <ul style="list-style-type: none"> ○ engineered stone ○ concrete ○ mortar ○ bricks ○ pavers ○ tiles

	<ul style="list-style-type: none"> ○ natural stone ○ cement sheeting ○ aerated concrete ● WHS Regulations ● Australian Standards AS/NZ1715:2009 and AS/NZ1716:2012 or their successors ● employer responsibilities and duty of care requirements: <ul style="list-style-type: none"> ○ consultation and communication processes ○ WHS regulations and health monitoring requirements ○ personal exposure monitoring ● safety information documents: <ul style="list-style-type: none"> ○ codes of practice ○ guidance notes ○ job safety analysis (JSA) ○ safety data sheets (SDS) ○ safe work method statement (SWMS) ● types of silicosis based on frequency of exposure and level of dust ● industries impacted by potential exposure to respiratory crystalline silica ● range of compliant plant, tools and equipment used with products and materials containing high silica content ● maintenance requirements on respirators for RCS and for power tools, plant and equipment ● maintenance and storage requirements for RPE ● RPE fit testing and fit checking requirements ● training for RPE use, maintenance and storage ● housekeeping methods: <ul style="list-style-type: none"> ○ regular cleaning practices ○ wearing RPE during cleaning ○ avoid sweeping of dust ○ M to H Class vacuum cleaners ○ wet wiping ○ use of water filtration ● dust control measures ● engineering controls, including maintenance: <ul style="list-style-type: none"> ○ dust capture extraction
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	<ul style="list-style-type: none"> ○ wet cutting methods and water suppression ○ respiratory protection ○ local exhaust ventilation ● activities generating RCS health hazards and risks: <ul style="list-style-type: none"> ○ cutting ○ grinding ○ polishing ○ drilling ○ demolishing ○ excavating ● WHS policy and procedures ● Reporting notifiable incidents ● WHS recording, reporting and audit requirements of records. ● environmental guidelines regarding waste disposal of slurry mixtures and dust containment strategies ● contingency planning.
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ASSESSMENT CONDITIONS	<p>Assessment of performance must be undertaken in the workplace or in a simulated workplace environment. Where the assessment occurs in a simulated workplace environment, the appropriate simulation(s) must reflect realistic workplace situations.</p> <p>Candidates must be provided with access to:</p> <ul style="list-style-type: none"> ▪ relevant task or work specifications ▪ appropriate documents, materials, tools, equipment and personal protective equipment (PPE) and respiratory protective equipment (RPE) currently approved for use in industry, as per codes of practice ▪ Australian Standards, relevant building legislation, industry codes, regulations and requirements of workplace policies and procedures as required by Commonwealth, state and territory regulators ▪ relevant environmental requirements. <p>Note: Where possible products used for training should contain low levels of silica to minimise the risk of exposure to respirable crystalline silica.</p>
LINKS	Link to Companion Volume Implementation Guide will be inserted here.