

UNIT CODE	CPCSIL4001
UNIT TITLE	Supervise work with products and materials containing respirable crystalline silica
APPLICATION	<p>This unit of competency specifies the skills and knowledge required to supervise work 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 covers the identification of products and materials containing crystalline silica, identification of worksite characteristics and establishing appropriate risk control measures for potential exposure to respirable crystalline silica across both static and dynamic work environments.</p> <p>The unit also covers briefing staff and contractors on compliant work requirements and covers the review of risk control measures and 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), 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 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. Plan and prepare for supervision of work.</p>	<p>1.1 Identify work requirements and worksite characteristics to determine extent of potential workplace safety hazards and risks to be managed.</p> <p>1.2 Identify product(s) and materials containing crystalline silica (CS), including Safety Data Sheets, to be used relating to work specifications and requirements, to determine appropriate exposure risk control(s) to be implemented and managed for both dynamic and static work environments.</p> <p>1.3 Determine the level of exposure to CS from performed work using identified products and materials and plan for appropriate combination of controls to be implemented and manage, in accordance with WHS procedures.</p> <p>1.4 Ensure serviceability of relevant plant, tools, equipment and personal protective equipment (PPE), including respiratory protective equipment (RPE) for planned staffing, to perform specified work, in accordance with WHS policy and procedures.</p> <p>1.5 Confirm competency requirements for staffing, including contractors and ancillary staff to perform specified work.</p> <p>1.6 Prepare details for briefings and ongoing worksite communication protocols, including management of contingencies for duration of project.</p>
<p>2. Conduct workplace briefings.</p>	<p>2.1 Communicate monitoring process of work schedule(s), product(s) and materials to be used and related risk control measures, to staff and contractors for safe and compliant work practices in accordance with WHS procedures.</p> <p>2.2 Confirm with staff and contractors designated work roles and responsibilities to perform work and health and safety risks of product(s) and materials containing CS in both dynamic and static work environments.</p> <p>2.3 Confirm with staff and contractors communication and reporting protocols, including levels of responsibility and seeking authoritative advice working with products and materials containing CS.</p> <p>2.4 Ensure staff and contractor awareness of risk control measures in place and expected adherence to WHS policy</p>

	<p>and procedures.</p> <p>2.5 Confirm with staff and contractors the expected compliant use of PPE and safe work practices working with products and materials containing CS in both dynamic and static work environments.</p>
3. Supervise workplace staff and contractors.	<p>3.1 Confirm selection, use and serviceability of PPE and relevant respiratory equipment, for the type and scope of work in accordance with manufacturer's specifications and WHS procedures.</p> <p>3.2 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>3.3 Perform appropriate ongoing work site communications, interventions and negotiations to ensure compliance with agreed control measures and WHS procedures working with products and materials containing CS.</p> <p>3.4 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>3.5 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>3.6 Manage work practice adjustments and risk control contingencies due to varying work conditions in accordance with WHS policies and procedures.</p>
4. Review workplace operations.	<p>4.1 Review applied work practices with products and materials containing CS for compliance with WHS policy and procedures, employee health and safety and relevant regulatory requirements.</p> <p>4.2 Assess effectiveness of applied control measures in managing exposure of risk during workplace operations across both dynamic and static environments.</p> <p>4.3 Assess the serviceability and effectiveness of the PPE, including respiratory equipment used in mitigating exposure risk for duration of work.</p> <p>4.4 Record, report and recommend for implementation compliance findings in accordance with workplace</p>

	continuous improvement processes and requirements.
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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 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 application of a combination of control measures for different products and materials containing CS, on three separate occasions and across both dynamic and static environments • demonstrate the supervision of staff adherence to workplace health and safety procedures with products and materials containing CS • demonstrate intervention, negotiation and escalation strategies with staff and relevant contractors in working environments regarding adherence to agreed WHS procedures with safe use of products and materials containing CS • identify six different products and materials containing crystalline silica and determine potential exposure RCS risks with proposed work activity.
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 risks from inhaling RCS • types of silicosis based on frequency of exposure and level of dust: <ul style="list-style-type: none"> ○ acute silicosis – short exposures to very high dust levels, from few weeks to years ○ accelerated silicosis – moderate to high levels of dust, 3-10 years ○ chronic silicosis – long term exposure to low levels of dust

	<ul style="list-style-type: none"> • industries impacted by potential exposure to respiratory crystalline silica • relevant WHS regulatory requirements and codes of practice • employer responsibilities and duty of care requirements • 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 • housekeeping methods: <ul style="list-style-type: none"> ○ avoid sweeping of dust ○ M to H Class vacuum cleaners ○ wet cutting methods ○ use of water filtration • dust control measures • engineering controls: <ul style="list-style-type: none"> ○ dust extraction ○ water suppression ○ respiratory protection ○ local exhaust ventilation • products and materials containing crystalline silica such as: <ul style="list-style-type: none"> ○ high silica content engineered stone ○ concrete ○ autoclaved aerated concrete products ○ bricks ○ tiles ○ quantum quartz/engineered stone • activities generating RCS health hazards and risks: <ul style="list-style-type: none"> ○ cutting ○ grinding ○ polishing ○ drilling ○ demolishing ○ excavating • relevant training requirements • workplace quality assurance requirements • environmental guidelines regarding waste disposal of slurry
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	<p>mixtures and dust containment strategies</p> <ul style="list-style-type: none"> 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"> both static and dynamic worksites or simulated static and dynamic worksites 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.
LINKS	Link to Companion Volume Implementation Guide will be inserted here.