UNIT CODE	CPCSIL4001
UNIT TITLE	Supervise and manage work with products and materials generating respirable crystalline silica
APPLICATION	This unit of competency specifies the skills and knowledge required to supervise and manage those working with products and materials that generate 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 (CS). The unit also includes briefing workers on compliant work requirements and establishing appropriate risk control measures, so far as reasonably practical, for potential exposure to RCS. The unit also covers work practices as part of continuous improvement processes for work health and safety (WHS) when working with products and materials containing CS. 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 CS. The worksite may be a factory or workshop setting, commercial and residential settings, and/or construction sites, including demolition sites. Licensing, legislative, regulatory or certification requirements may apply to this unit. Relevant WHS state and territory regulatory authorities should be consulted to confirm jurisdictional requirements.
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.	1.1 Check work or design requirements and workplace environment to determine level of exposure to RCS from work activity, so far as reasonably practical, in accordance with WHS procedures and manufacturer instructions. 1.2 Check if air monitoring is required and if so, arrange air monitoring processes in accordance with WHS procedures and regulations. 1.3 Identify WHS requirements for working with products containing CS, including codes of practice, guidance notes and safety data sheets (SDS), where available. 1.4 Check if relevant safety documentation is available and, if not, put processes in place for its development. 1.5 Check SDS or relevant technical data sheets to identify products and materials containing CS to meet work specifications and requirements. 1.6 Plan to implement and manage appropriate combination of controls, so far as reasonably practical, in accordance with WHS procedures. 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. 1.8 Determine competency requirements for all workers to perform specified work and arrange for training, where applicable, in accordance with WHS procedures. 1.9 Prepare details and records for briefings and ongoing workplace communication protocols, including management of contingencies, for duration of project.
2. Conduct workplace briefings and consultations.	2.1 Communicate monitoring process of work schedules, products and materials to be used and related risk control measures to all workers for safe and compliant work practices in accordance with WHS procedures.

	2.2 Confirm with all workers designated work roles and responsibilities to perform work and identify health and safety risks of products and materials containing CS. 2.3 Consult with all workers communication and reporting protocols, including levels of responsibility and seeking authoritative advice, for working with products and materials containing CS. 2.4 Confirm with all workers the expected compliant use of PPE, RPE and safe work practices for working with products and materials containing CS in accordance with manufacturer instructions and WHS procedures. 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 instructions and WHS procedures.
3. Implement safety requirements.	3.1 Develop and implement relevant safety documentation for work activity, where required. 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 instructions and WHS procedures. 3.3 Check plant, tools and equipment comply with workplace safety requirements and dust capture and extraction, suppression and management. 3.4 Apply appropriate combination of control measures in accordance with duration of work activity. 3.5 Check selection of correct RPE for work activity and conduct or arrange fit testing for operators and other workers, where applicable, in accordance with manufacturer instructions.
4. Manage worksite operations.	4.1 Confirm selection, use and serviceability of PPE and relevant RPE for the type and scope of work with all workers, in accordance with manufacturer specifications and WHS procedures. 4.2 Monitor compliant use of plant, tools and equipment for work activities in managing RCS in accordance with WHS procedures and regulations.

	4.3 Conduct ongoing monitoring and assessment of levels of adherence to agreed safe work practices and control measures in accordance with WHS policy and procedures. 4.4 Perform appropriate ongoing worksite consultations and communications to ensure compliance with agreed control measures and WHS procedures working with products and materials containing CS. 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. 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. 4.7 Manage work practice adjustments and risk control contingencies due to varying work conditions in accordance with WHS policies and procedures.
5. Oversee compliant clean-up, maintenance and storage operations.	5.1 Check completion of clean-up of work area plant, tools, equipment and PPE is performed and dust and slurry disposal complies with WHS policies and procedures. 5.2 Check RPE is appropriately cleaned, maintenance and storage requirements are performed in accordance with manufacturer instructions.
6. Review workplace operations.	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. 6.2 Assess effectiveness of applied control measures in managing exposure of risk during workplace operations. 6.3 Assess the serviceability and effectiveness of the PPE, including RPE used in mitigating exposure risk for duration of work. 6.4 Record, report and recommend for implementation compliance findings in accordance with workplace continuous improvement processes and requirements. 6.5 Record, store and report relevant air monitoring and worker health monitoring reports in accordance with WHS legislation requirements and WHS procedures.

FOUNDATION SKILLS Foundation skills essential to performance are explicit in the performance criteria of this unit of competency	
UNIT MAPPING INFORMATION	Newly created unit.

TITLE	Assessment Requirements for Supervise and manage work with products and materials generating respirable crystalline silica.
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: • select and supervise the application of a combination of control measures for three different work activities, such as cutting, drilling or grinding on products or materials containing crystalline silica (CS). In doing so, the candidate must: • demonstrate compliance with selection and use of respiratory 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	To be competent in this unit, a candidate must demonstrate knowledge of:
	
	• hierarchy of control measures:
	  ○ elimination
	  ○ substitution
	  ○ isolation
	  ○ engineering controls
	  ○ administrative controls
	  ○ personal protective equipment (PPE)/RPE
	• health risks working with products and materials containing CS
	• health effects from inhaling respirable crystalline silica (RCS)
	• products containing CS, such as:
	  ○ engineered stone
	  ○ concrete
	  ○ mortar
	  ○ bricks
	  ○ pavers
	  ○ tiles
	  ○ natural stone

	○ cement sheeting ○ aerated concrete • work health and safety (WHS) regulations • Australian Standards AS/NZ 1715:2009 Selection, use and maintenance of respiratory protective equipment and AS/NZ 1716:2012 Respiratory protective devices, or their equivalent • employer responsibilities and duty of care requirements: ○ consultation and communication processes ○ WHS regulations and health monitoring requirements ○ personal exposure monitoring • safety information documents: ○ 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 RCS • compliant use of a range of 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 • manufacturer requirements • training for RPE use, maintenance and storage • housekeeping methods: ○ 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: ○ dust capture extraction

	○ wet cutting methods and water suppression ○ respiratory protection ○ local exhaust ventilation • activities generating RCS health hazards and risks: ○ cutting ○ grinding ○ polishing ○ drilling ○ demolishing ○ excavating • WHS policies 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.

ASSESSMENT CONDITIONS	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. Candidates must be provided with access to: ▪ relevant tasks or work specifications ▪ appropriate documents, materials, tools, equipment, PPE and RPE currently approved for use in industry ▪ relevant 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.