Unit of Competency — RIIWHS3XX Work safely in the drilling industry

Unit code *Mandatory field*	**RIIWHS3XX**
Unit title *Mandatory field*	**Work safely in the drilling industry**
Application *Mandatory field*	This unit describes the skills and knowledge required to work safely in the drilling industry, and to maintain workplace safety for self and others throughout drilling operations. It includes confirming safety requirements before work commences, working in a way that protects the individual from the hazards characteristic of drilling operations, maintaining separation between people and hazards on and around the rig, monitoring the continued effectiveness of controls and acting when they degrade, and completing the reporting, consultation and record keeping required by the site work health and safety (WHS) management system. This unit applies to individuals working in drilling operations in the resources and infrastructure industries. They work under limited supervision across a broad range of contexts, exercise discretion and judgement in recognising when controls have degraded or conditions have changed, take responsibility for the quality and safety of their own work, and influence the safety of the crew and others working around the rig.
Licensing/Regulatory Information	Licensing, legislative and certification requirements that apply to this unit can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.
Pre-requisite unit *Optional field*	Nil
Competency field *Optional field*	Work Health and Safety
Unit sector *Optional field*	Drilling
Elements *Elements describe the essential outcomes.*	**Performance criteria** *Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Plan and prepare to work safely in drilling operations	1.1 Obtain, interpret and confirm work requirements applicable to the drilling activity 1.2 Access, interpret and apply drilling safety documentation, permits, isolation requirements, and manufacturer information 1.3 Confirm control measures through site risk assessment processes are in place, serviceable and effective before work commences 1.4 Confirm own and others' fitness for work, and report factors that may affect safe performance according to workplace procedures 1.5 Select, inspect and use personal protective equipment and safety equipment specified for the drilling activity

2. Apply safe work practices	2.1 Identify hazards arising during the work and apply the controls specified for them, according to workplace procedures 2.2 Maintain own position clear of moving plant, suspended loads, stored energy and other line of fire hazards throughout the work 2.3 Apply manual handling techniques and use handling aids to move loads and equipment without injury 2.4 Apply controls for exposure hazards according to workplace procedures 2.5 Coordinate the movement of personnel, plant, loads and vehicles around the rig to maintain separation between people and hazards 2.6 Adjust work practices in response to changing environmental conditions within scope of own role 2.7 Stop work and escalate to appropriate personnel if a task exceeds own authority
3. Work safely around exclusion zones	3.1 Identify exclusion zones associated with the drilling activity, and confirm their boundaries against site plans, signage and barriers 3.2 Confirm authorisation to enter, and confirm all specified controls are in place, before entering an exclusion zone 3.3 Maintain exclusion, separation and safe working distances applicable to the zone throughout the work 3.4 Maintain barriers, signage, tags and isolations in position and in a legible and serviceable condition for the duration of the work 3.5 Maintain communication with others working in or adjacent to the zone using agreed methods
4. Monitor and maintain workplace safety	4.1 Monitor the effectiveness of control measures throughout the work, and identify deterioration, deviation or defeat of a control 4.2 Stop work, make the area safe and escalate where controls are no longer effective or conditions fall outside the scope of the authorisation 4.3 Report hazards, near misses, incidents and defects through site reporting processes within required timeframes 4.4 Respond to incidents and emergencies within the limits of own training, competence and authority, and according to site emergency procedures 4.5 Implement and monitor WHS policies and procedures within the work crew, within scope of own role 4.6 Provide safety information and support to crew members, new starters, visitors and contractors, within scope of own role 4.7 Participate in WHS consultation arrangements, and raise, follow up and confirm resolution of safety issues
5. Complete work and safety documentation	5.1 Inspect the work area on completion and leave it in a safe, stable and tidy condition 5.2 Close out or hand over permits, isolations and authorities according to workplace procedures 5.3 Reinstate, remove or hand over exclusion zone controls on completion of work according to workplace procedures 5.4 Clean, inspect and store plant, tools, equipment and personal protective equipment, and report defects

	5.5 Complete and submit WHS records, reports and documentation according to task requirements and workplace procedures 5.6 Participate in post-work reviews and debriefs, and identify and escalate opportunities to improve safety practices
Foundation skills *Optional field*	**Numeracy** Interprets and applies numerical information relating to exclusion and separation distances, load weights and dimensions, and exposure limits **Problem solving** Evaluates whether changed conditions remain within the scope of an authorisation, and determines when work must stop
Assessment Requirements	
Performance evidence	The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to: • work safely in the drilling industry on at least two (2) occasions, completing the activity from planning through to close out and responding appropriately to hazards, exclusion zones and changing conditions as they arise. During the course of the above, the candidate must: • apply the controls specified for at least three (3) different hazards encountered during the work, including at least one (1) exposure hazard and at least one (1) line of fire hazard • work in or adjacent to at least one (1) exclusion zone, maintaining the exclusion, separation and communication requirements applicable to it for the duration of the work • respond to at least one (1) change in conditions or control effectiveness by adjusting work practices, escalating the matter, or stopping work, as the situation requires • complete the WHS documentation, consultation and reporting associated with the activity
Knowledge evidence	The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of: • key policies, procedures and established requirements for working safely in the drilling industry, including those for: ◦ work health and safety, including duty of care obligations of workers and other duty holders in drilling operations ◦ site risk assessment, and the control measures applied to drilling activities ◦ permits, authorisations, isolation and tag-out ◦ selection, inspection, and use of personal protective equipment ◦ exclusion zones, including barriers, signage, tags and safe working distances ◦ communication and coordination of personnel, plant, loads and vehicles on site ◦ reporting hazards, near misses, incidents and defects

	◦ responding to incidents and emergencies ◦ WHS consultation and resolution of safety issues ◦ completion of work, including housekeeping, close out and hand over ◦ WHS records, reports and documentation • hazards arising in drilling operations, their injury mechanisms and the controls specified for them • line of fire hazards, and safe positioning relative to moving plant, suspended loads and stored energy • safe work practices for maintenance and vehicle breakdown activities, including: ◦ applying stop and think risk assessment before starting, ◦ isolating and controlling stored energy, ◦ positioning safely around disabled plant and vehicles, ◦ the limits of own authority to attempt repairs • manual handling techniques and the use of handling aids • exposure hazards in drilling operations and the controls applied to each • effect of changing environmental conditions on drilling activities, and the adjustments made to work practices in response • indicators that a control has deteriorated, been deviated from or defeated • worker rights and obligations relating to ceasing unsafe work, and the escalation process that follows • scope and limits of own role and authority in providing safety information and support to others • how information from reports, reviews and consultation is used to improve safety practices • drilling industry team roles and responsibilities in relation to safety
Assessment conditions	The assessment must: • include access to: ◦ a drilling site or work area containing at least one (1) exclusion zone ◦ site WHS management system documentation, procedures, permits and risk assessment tools ◦ barriers, signage, tagging and isolation equipment applicable to the work area ◦ personal protective equipment and safety equipment specified for the activity ◦ communication equipment used on site ◦ site emergency procedures • be conducted in a safe environment; and, • be assessed in the context of this sector’s work environment; and, • be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and, • confirm consistent performance can be applied in a range of relevant workplace circumstances.

	Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills. *Guidance on simulated environments has been stipulated in the RII Companion Volume Implementation Guide. **Industry experts** An industry expert engaged by an RTO to wholly or partially conduct assessment, independently or together with another assessor, or be involved in an assessment judgement, must also satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards. Assessors and industry experts delivering training in the drilling industry sector must also have a minimum of **three (3) years** industry experience, directly relevant to the training and assessment being provided.
Mandatory workplace requirements	Assessment of performance evidence may be in a workplace setting or an environment that accurately represents a real workplace.
Unit mapping information	New unit. No equivalent unit.
Links	