



Australian Government

RIICTC402 Supervise tunnel boring machine operations

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to supervise tunnel boring machine (TBM) operations in civil construction, including implementing job plans and managing, overseeing and reporting on the execution of TBM operations.

It applies to those working in supervisory or technical specialist roles. They generally perform tasks involving a broad range of varied activities most of which are complex and non-routine and are responsible for the quantity and quality of the output of others.

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

RIICTC306 Conduct tunnel boring machine operations

Unit Sector

Civil construction

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to supervise TBM operations	1.1 Obtain, interpret and confirm work instructions 1.2 Access, interpret and apply documentation required to supervise TBM operations and confirm work activity is compliant 1.3 Prepare and implement a job plan that meets task requirements in consultation with team members 1.4 Confirm required resources are available for work activity 1.5 Monitor environmental risks and hazards and address

	non-compliance as required 1.6 Check and confirm all team members and own self meet personal protective equipment requirements 1.7 Identify plant, tools and equipment required for tasks, and check for faults and confirm condition meets job requirements 1.8 Identify steps required to respond to emergencies and confirm team members are briefed on procedures
2. Prepare team members for TBM operations	2.1 Identify team member training requirements and implement training plans within scope of own role 2.2 Communicate and clarify instructions with team members and other involved personnel according to job requirements 2.3 Set out tasks required to complete work activity according to job requirements
3. Oversee TBM operations	3.1 Monitor TBM operations according to job requirements 3.2 Implement adjustments to work processes and job plan as required and confirm required outcomes are achieved 3.3 Oversee maintenance of plant, equipment and tools and confirm maintenance is recorded as required 3.4 Oversee technical troubleshoots as required 3.5 Communicate and coordinate with tunnel manager on decision-making required for TBM operations 3.6 Check and confirm ring-built quality according to job requirements 3.7 Monitor and adjust TBM operations to meet production requirements
4. Report on TBM operations	4.1 Complete and submit reports according to site requirements 4.2 Recommend required changes to confirm task execution meets job requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Oral communication	Presents workplace procedures and technical instructions to a group using sector-specific vocabulary
Writing	Writes job plans, organisational procedures and specifications considering available resources and time frames

Unit Mapping Information

New unit

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>