



Australian Government

RIIWHS305 Implement traffic management plans on motorways and freeways

Release: 1

RIIWHS305 Implement traffic management plans on motorways and freeways

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 set out, monitor and close down traffic management plans and traffic guidance schemes on motorways and freeways requiring temporary traffic management.

It applies to those working in supervisory roles. They generally work in teams in live traffic environments and hold some responsibility for the outcomes of others. This unit applies to temporary traffic management on roads that include the following characteristics:

- any motorway or freeway and associated on-ramp or off-ramp; or
- any grade separated road with:
 - speed limits greater than or equal to 90km/h; and
 - traffic volumes generally greater than 20,000 vehicles per day (Average Annual Daily Traffic (AADT)).

This unit is appropriate for individuals who have completed at least 12 temporary traffic management set ups within the last 12 months, including at least one higher speed road set up.

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

RIIWHS302E Implement traffic management plans

Unit Sector

Civil construction

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
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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 implement traffic management plan	1.1 Determine worksite requirements and scope of traffic management plan and traffic guidance scheme, including review and confirmation of required approvals and permits and determination of pre-start location on site 1.2 Identify, address and report potential risks, hazards and environmental issues and implement control measures within scope of own role 1.3 Obtain and interpret emergency procedures and identify steps required to respond to incidents and emergencies 1.4 Validate suitability of traffic management plan and traffic guidance scheme to site conditions, traffic volumes and work activities and confirm requirements are met 1.5 Review resource availability and resource personnel to implement traffic management plan and traffic guidance scheme according to site requirements 1.6 Confirm required liaison and communication activities are performed according to instructions, including notification of public transport providers 1.7 Provide traffic guidance scheme implementation instructions to traffic control personnel and clarify and confirm recipient understanding as required 1.8 Establish required changes in lane use management system according to traffic management plan
2. Set out traffic guidance scheme	2.1 Check required signs and devices are positioned and installed according to traffic guidance scheme 2.2 Inspect traffic guidance scheme and authorise roadwork crew to proceed with work activities 2.3 Confirm roadwork crew are protected from work site hazards
3. Monitor traffic guidance scheme	3.1 Confirm traffic flow is being monitored by required personnel according to traffic guidance scheme 3.2 Apply adjustments to traffic guidance scheme as necessary to maintain required traffic flow and within scope of own job role 3.3 Monitor work activities and apply required measures to mitigate and address roadwork crew and road user non-conformance 3.4 Apply workplace policies and procedures to address offending road users as required 3.5 Coordinate and liaise with traffic management control centre and other traffic control companies in vicinity of the work site 3.6 Manage hazards and incidents according to site requirements

ELEMENT	PERFORMANCE CRITERIA
	3.7 Liaise and coordinate with the Traffic Management Designer on any modifications to the traffic management plan which may be required to address issues or improve performance
4. Close down work activities	4.1 Direct covering and required removal of equipment, signs and devices according to traffic guidance scheme 4.2 Confirm tools and equipment are cleaned, checked, maintained and stored according to manufacturer specifications and site requirements 4.3 Finalise traffic work zone close-down and complete required reporting, including notification of work completion to traffic management control centre

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
Numeracy	Applies basic mathematical processes, including simple addition, subtraction and multiplication to calculate and monitor traffic volumes and required resources
Oral communication	- Presents information and provides assistance using sector-specific vocabulary - Uses listening and questioning to clarify and confirm understanding
Reading	Identifies and interprets information from workplace procedures, documentation, legislation and regulations
Writing	Produces and completes workplace reports, including risk management matrices, using sector-specific vocabulary, grammatical structures and conventions

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>

Assessment Requirements for RIIWH305 Implement traffic management plans on motorways and freeways

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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:

- implement traffic management plans on motorways and freeways on at least three separate live traffic projects, including:
 - completing at least two of the following:
 - a tunnel or on-ramp or off-ramp
 - mobile works including use of a convoy
 - static works including multiple lane closures
 - truck mounted attenuator setup
 - deployment vehicle operations, including cone trucks and/or rumble strips
 - contra-flow
 - setting out traffic guidance schemes for at least one of the following:
 - lane use management system
 - variable message signs
 - variable speed limit signs
 - safety barriers
 - staging to suit changing work site requirements
 - catering for over dimension vehicles
 - portable traffic control devices
 - deployment of traffic cones, bollards or rumble strips.

During the above, the candidate must:

- locate and apply required legislation, documentation, policies and procedures including documentation required for worksite projects and required traffic management
- work with traffic control and site personnel to implement, monitor and remove a traffic guidance scheme, with reference to the traffic management plan, that meets required outcomes, including:

- confirming necessary resources are available, including qualified personnel
- confirming personnel understand, and are able to implement, their roles, task requirements, safety requirements and reporting requirements
- communicating with others to resolve resourcing and coordination requirements prior to and during work activities
- confirming that aftercare and unattended sites and shut-down procedures are completed according to traffic management plan and traffic guidance scheme
- completing written and verbal reporting requirements and procedures, including reporting offending road users.

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:

- legislation required to implement traffic management plans on motorways and freeways
- policies, procedures and documentation required to implement traffic management plans on motorways and freeways, including:
 - Austroads Guide to Temporary Traffic Management
 - work health and safety
 - traffic management plans
 - hazard and risk management
 - traffic guidance scheme
 - site incident and emergency procedures
 - site requirements
 - work instructions
 - workplace recording and reporting
 - manufacturer specifications for required plant and equipment
- temporary traffic management risk management principles and procedures, including those relating to:
 - freeways and motorways
 - grade separated roads with speed limits greater than or equal to 90km/h and traffic volumes generally greater than 20,000 vehicles per day (Average Annual Daily Traffic (AADT))
 - works involving a tunnel or on-ramps or off-ramps
 - mobile works involving use of a convoy
 - static works involving multiple lane closures
 - truck mounted attenuators
 - lane use management systems
 - variable message signs
 - use of deployment vehicles, including cone trucks and rumble strips
 - rolling blockages

- principles and techniques for reviewing on-site traffic management plans, identifying gaps and suggesting and implementing control measures to address the potential hazards and risks
- principles and techniques for calculating traffic volumes and required resources
- principles and techniques for providing site supervision, including:
 - teamwork
 - confirming roles and requirements of others
 - coordinating tasks
- principles and techniques for monitoring traffic guidance schemes, including consideration of:
 - impact of proximate events on the traffic management plan
 - incident response and alternative detour routes
- principles and techniques for closing down work activities, including consideration of:
 - dismantling sequences
 - after care
 - variable message signs
 - variable speed limit signs.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - traffic management plan
 - traffic guidance scheme
 - personal protective equipment
 - devices, equipment and signs specified in the performance criteria
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment on a real live road setting under supervision, including evidence in at least one of the forms that this has occurred on at least three different temporary traffic management set ups:
 - dash cam footage
 - photos
 - verbal interviews
 - logbooks
 - completed job packs
- 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.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter	

	expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.
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*Guidance on simulated environments has been stipulated in the RII Companion Volume Implementation Guide located on VETNet.

**Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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