



Australian Government

**Assessment Requirements for RIICWD538
Prepare traffic management plans and
traffic guidance schemes for high volume
roads**

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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.

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:

- prepare traffic management plans and traffic guidance schemes for high volume roads on at least two occasions, including:
 - identifying and assessing hazards, risks and constraints in the work zone
 - determining traffic control arrangements for:
 - signalised intersections, including turning lanes
 - multi-lane roads
 - required detours or bypasses
 - traffic paths, lane arrangements and dimensions
 - channelization or delineation arrangements, including tapers
 - access arrangements for worksite and event traffic and properties affected by work zone traffic arrangements
 - parking management, including business and customer access
 - key road users, including:
 - vulnerable road users
 - cyclists
 - public transport
 - police and emergency services
 - over dimension vehicles
 - signage requirements, including type, size and placement
 - protecting traffic control workers during installation, operation and removal of traffic guidance scheme
 - unattended worksites
 - required traffic control illumination
 - escape routes

- pedestrian movements at signalised intersections
- selection of suitable times for works and staging of works
- night works
- traffic controller requirements for working near or at signalised intersections
- traffic controller requirements for multi-lane roads
- interpreting and analysing data
- calculating flow rates, level of service, capacities and percentages
- determining traffic management plan capacity requirements
- documenting scope and authorities to modify the plan during implementation
- reviewing and confirming required approvals and permits.

During the above, the candidate must:

- access and interpret required:
 - plans, drawings, specifications and traffic management plan briefs
 - engineering survey information
 - traffic analysis data
- select and apply required traffic management plan implementation techniques
- apply engineering graphical presentation techniques
- work with required personnel to undertake and complete the work zone traffic management plan including:
 - complying with reporting requirements and procedures
 - communicating with others to receive and clarify work instructions and coordinate work activities
 - consult with stakeholders
- identify scenarios where input from an external technical specialist is required.

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 prepare traffic management plans and traffic guidance schemes for high volume roads
- policies, procedures and documentation required to prepare traffic management plans and traffic guidance schemes for high volume roads, including:
 - Austroads Guide to Temporary Traffic Management
 - temporary traffic management
 - risk assessment and management
 - statutory compliance
 - work health and safety
 - environmental management

- cultural and heritage management
- quality management
- plan approvals and reviews
- performance reviews
- task specific documentation, including plans, drawings, specifications and traffic management plan briefs
- workplace recording and reporting procedures
- principles of road user behaviour, including for roads with:
 - speeds limits greater than or equal to 60km/h and greater than 3,000 vehicles per day (Average Annual Daily Traffic (AADT))
 - any speed limit and greater than 10,000 vehicles per day (AADT)
 - signalised intersections
- principles of traffic management plans and traffic guidance schemes, including:
 - design options, including for:
 - signalised intersections
 - roundabouts
 - high volume roads
 - techniques for evaluating and selecting preferred options
 - calculating resource requirements
 - signs, devices and equipment types, including variable message signs
 - characteristics, technical capabilities and limitations
 - geometrics
 - potential traffic hazards, constraints and conditions
 - traffic volume and traffic impact of the proposed works
- techniques for implementing traffic management plans and traffic guidance schemes, including:
 - operational techniques
 - public communications strategies
 - industry and workplace design
 - implementation structures and capabilities
 - management and team leadership techniques
 - problem solving techniques
 - accessing and interpreting site specific data, including:
 - engineering survey information
 - hydrological, meteorological, cultural and heritage data
 - interpreting and analysing data, including traffic analysis data
 - engineering graphical presentation techniques
 - cost estimation techniques.

Assessment Conditions

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

- include access to:
 - traffic management plan
 - traffic guidance scheme
- 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.

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.	

*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.

Links

Companion Volume Implementation Guide is found on VETNet -

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