

BCCCM2013B**Unit Descriptor****Control traffic with a stop-slow bat**

This unit specifies the competency required to control traffic on public roads and construction sites for the protection of site workers and the general public, including the minimum criteria for competency assessment.

Unit Sector

This unit includes operating a radio and using a stop-slow bat.

No sector assigned

ELEMENT**PERFORMANCE CRITERIA****1. Plan and prepare**

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details relevant to the tasks are obtained, confirmed and applied to the allotted task
- 1.2 Safety requirements are obtained from the site safety plan and organisational policies and procedures, confirmed and applied to the allotted task
- 1.3 Signage requirements are identified and obtained from the project traffic management plan and implemented
- 1.4 Tools and equipment selected to carry out tasks that are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported
- 1.5 Environmental protection requirements are identified from the project environmental management plan confirmed and applied to the allotted task

2. Coordinate traffic

- 2.1 Temporary traffic signs and barriers are positioned or confirmed in accordance with State or Territory regulations
- 2.2 Traffic is directed in accordance with site traffic plan and away from services or areas of potential damage or danger
- 2.3 Vehicles and pedestrian traffic within the work site are controlled to ensure safety of workers through traffic
- 2.4 Traffic is monitored, adjustments made for changing conditions, and waiting vehicles positioned to allow for smooth traffic flow
- 2.5 Hand held stop/slow bats are used in accordance with State or Territory regulatory authority approved procedures
- 2.6 Hand signals are used in accordance with State or Territory regulatory authority approved procedures
- 2.7 Traffic offenders are reported in accordance with State or Territory regulatory authority approved procedures

3. Operate radio

- 3.1 Radio controls are adjusted for optimum reception/transmission results
- 3.2 Messages are transmitted concisely and in accordance with operating procedures or best practice
- 3.3 Radio power supply is maintained in accordance with manufacturers recommendation
- 3.4 Radio contact is checked after nominated period of non contact and in accordance with operating procedures

- 4. Clean up
 - 4.1 Signs and devices are removed or covered sequentially to provide warning to motorists during shutdown
 - 4.2 Tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices

KEY COMPETENCIES

These include a number of processes that are learned throughout work and life, which are required in most jobs. Some of these are covered by the national key competencies, although others may be added. The questions below highlight how these processes are applied in this competency unit.

The number in brackets indicates the level to which the key competency needs to be demonstrated where:

Level 1 relates to working within set conditions and processes;

Level 2 relates to management or facilitation of conditions or processes are exercised; and

Level 3 relates to design and/or development of conditions or process are required.

How will the candidate apply the following key competency in this unit?

The candidate will need to:

Key Competency	Example of Application	Performance Level
Communicating ideas and information	Communicate ideas and information in simple English to enable confirmation of work requirements, passage of information and requests to other workers during operations and the reporting and recording of work outcomes	2
Collecting analysing and organising information	Collect, organise, interpret and understand the information required for the preparation and application of controlling traffic, including work instructions, quality assurance procedures, manufacturers' instructions, material safety data sheets and equipment instructions	1
Planning and organising activities	Plan and organise activities associated with the preparation and application of controlling traffic, including the scheduling and use of equipment, materials and tools to avoid backtracking and rework	1
Working with others and in teams	Work with others and in a team by recognising dependencies and using co-operative approaches to optimise satisfaction and productivity	1
Using mathematical ideas and techniques	Use mathematical ideas and techniques to correctly calculate time to complete tasks, complete measurements and establish quality checks	1
Solving problems	Establish safe and effective work processes which anticipate likely problems and blockages and systematically work around these to avoid or minimise reworking and avoid wastage	1
Using technology	Use workplace technology related to determining requirements, the planning and application of controlling traffic, including the use of calculators, mechanical equipment and the reporting/recording of results	1

RANGE STATEMENT

The Range Statement provides advice to interpret the scope and context of this unit of competency allowing for differences between enterprises and workplaces. It relates to the unit as a whole and facilitates holistic assessment. The following variables relate to this particular unit:

Unit scope

- Traffic control applies to and includes but is not limited to worksite preparation activities, worksite traffic, through traffic, machine operator support, services protection and identification, worksite traffic co-ordination
- Radio transmissions are to include but not be limited to VHF and UHF
- Traffic signs and devices are to include but not limited to temporary warning signs, regulatory and traffic cones and may include vehicle mounted signs and flashing lights, guide signs, warning signs, barriers, hazard markers, bollards and arrow boards
- Planning and preparation is to include but not be limited to worksite inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements
- Traffic conditions may include but not be limited to congested urban environments, low traffic rural areas, off-road un-trafficked areas, buildings, parking sites and pedestrian areas

Safety (OH&S)

- OH&S requirements are to be in accordance with State or Territory legislation and regulations, organisational safety policies and procedures, and project safety plan. This may include protective clothing and equipment, use of tools and equipment, workplace environment and safety, handling of materials, use of fire fighting equipment, use of first aid equipment, hazard control and hazardous materials and substances
- Personal protective equipment is to include that prescribed under legislation, regulation and workplace policies and practices
- Safe operating procedures are to include but not be limited to recognising and preventing hazards associated with uneven/unstable terrain, trees, pits, poles, trip hazards, dirt mounds, overhead service lines, bridges, surrounding buildings, obstructions, structures, facilities, dangerous materials, recently filled trenches, other machines, personnel, restricted access barriers, traffic control, working in proximity to others, worksite visitors and the public

Safety (OH&S) (continued)	• Safe parking practices are to include but not be limited to ensuring access ways are clear, equipment/machinery is away from overhangs and refuelling sites, safe distance from excavations, and secured from unauthorised access or movement • Hazards and risks may include but not be limited to uneven/unstable terrain, trees, fires, overhead and underground services, bridges, buildings, excavations, traffic, embankments, cuttings, structures and hazardous materials
Environmental Requirements	• Environmental requirements are to include but are not limited to organisational/project environmental management plan, waste management, water quality protection noise vibration, dust and clean-up management
Quality Requirements	• Quality requirements may include but not be limited to dimensions, tolerances, standards of work and materials standards as detailed in the project drawings, specifications and project documentation to meet client satisfaction
Statutory/Regulatory Authorities	• Statutory/regulatory authorities may include Federal, State and Local Authorities
Tools and equipment	• Tools and equipment are to include but not be limited to radio, stop-slow bat, high visibility vest, traffic cones, signage and may include warning lights and beacons, arrow boards
Communications	• Communications are to include but not limited to verbal instructions and fault reporting and may include two way radio, hand signals, mobile phone, stop-slow bats, site specific instructions, written instructions or instructions related to job/task

Information

- Information sources may include but not be limited to verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, charts and hand drawings, memos, maps, material safety data sheets (MSDS) and diagrams or sketches
- Safe work procedures or equivalent related to controlling traffic with a stop-slow bat
- Regulatory/legislative requirements pertaining to controlling traffic with a stop-slow bat
- Manufacturers' specifications and instructions
- Organisation work specifications and requirements
- Instructions issued by authorised organisational or external personnel
- Relevant Australian Standards

EVIDENCE GUIDE

The Evidence Guide identifies the critical aspects, knowledge and skills to be demonstrated to confirm competency for this unit. This is an integral part of the assessment of competency and should be read in conjunction with the Performance Criteria, the Range Statement, and the Assessment Guidelines of the Training Package.

Critical aspects of evidence required to demonstrate competency in this unit

- Location, interpretation and application of relevant information, standards and specifications
- Compliance with site safety plan, OH&S regulations and State/Territory legislation applicable to workplace operations
- Compliance with organisational policies and procedures including quality requirements
- As a minimum, control traffic complying with State/Territory regulations on three separate live traffic projects and one project controlling site construction vehicles
- Safe and effective operational use of equipment
- Communication and working effectively and safely with others

Relationship to other units

- Pre-requisite units are:

BCCCM1001B Follow OH&S policies and procedures

Competency in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role

Specific knowledge required to achieve the performance criteria

- A knowledge of
 - Site and equipment safety requirements
 - Traffic controlling
 - Traffic management plans
 - Traffic control signage and barricades
 - Radio operations
 - Equipment types, characteristics, technical capabilities and limitations
 - Operational and maintenance procedures for equipment
 - Site isolation and traffic control responsibilities and authorities
 - Affects of travel speed and vehicle mass on stopping distances
 - Quality requirements
 - Civil Construction terminology
 - JSA's/Safe work method statement

The context of assessment

- The application of competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to comply with relevant regulatory or Australian Standards requirements

Methods of assessment

- Assessment must satisfy the endorsed assessment guidelines of the Building and Construction industry's Civil Construction Training Package
- Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge
- Assessment must be by direct observation of tasks, with questioning on underpinning knowledge and it must also reinforce the integration of key competencies.
- Assessment methods must confirm the ability to access and correctly interpret and apply the essential underpinning knowledge
- Assessment may be applied under project related conditions (real or simulated) and require evidence of process
- Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
- Assessment may be in conjunction with assessment of other units of competency, including those listed above

**Specific resource
requirements for this unit**

- The following resources should be made available:
 - workplace location or simulated workplace
 - equipment appropriate to control traffic with a stop-slow bat
 - work instructions