



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **TLIH207D Plan and navigate routes**

**Release: 1**

## **TLIH207D Plan and navigate routes**

### **Modification History**

Not applicable.

### **Unit Descriptor**

This unit involves the skills and knowledge required to plan and navigate routes as part of transport operations, including interpreting information from a road map, street directory and a GPS (Global Positioning System) device, planning the most appropriate route taking into account pertinent factors, and completing required trip documentation in accordance with operational requirements

### **Application of the Unit**

Work must be carried out in compliance with the regulations of the relevant state/territory roads and traffic authorities.

Work is performed under general or limited supervision. It involves the application of map reading principles and procedures to the planning and navigation of routes as part of transport operations route.

### **Licensing/Regulatory Information**

Not applicable.

### **Pre-Requisites**

Not applicable.

### **Employability Skills Information**

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this competency is packaged will assist in identifying employability skill requirements.

### **Elements and Performance Criteria Pre-Content**

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

## Elements and Performance Criteria

### Elements and Performance Criteria

Element	Performance Criteria
1 <b>Interpret street maps</b>	1.1 Symbols in a street directory and road map are recognised and interpreted  1.2 Places are identified in a directory index and the information used to locate the places on the appropriate map
2 <b>Use GPS systems</b>	2.1 Where applicable, information is entered into the GPS system concerning destination and areas to be avoided  2.2 Information provided through the GPS device is read and listened to, interpreted and applied to route planning and navigation  2.3 Where necessary, information on height, width and load limits of road infrastructure and other restrictions on thoroughfares is accessed, interpreted and used when selecting the most appropriate route with the aid of the GPS device
3 <b>Plan routes</b>	3.1 Given a location and a destination, the most direct and alternative routes between two points are identified using a map  3.2 Where necessary, information on height, width and load limits of road infrastructure and other restrictions on thoroughfares is accessed and interpreted and taken into account when planning a route for a journey  3.3 A suitable route is selected to ensure the most efficient, safe, secure and legal transport operation taking into account relevant criteria for the transport operation concerned
4 <b>Follow planned route</b>	4.1 Planned route is correctly followed with the aid of a street directory, road map and/or GPS system  4.2 Where relevant, geographic regions, tourism features and other places of interest are identified  4.3 Required route documentation is completed in accordance with purpose of transportation and

enterprise requirements

- 4.4 Parking procedures are observed in accordance with enterprise procedures and relevant legislative requirements

## Required Skills and Knowledge

### REQUIRED KNOWLEDGE AND SKILLS

This describes the essential knowledge and skills and their level required for this unit.

#### Required knowledge:

Relevant state and territory permit and licence regulations and requirements

Operational procedures for planning and navigating transport routes

Features and contents of maps and street directories and techniques for their use in transport navigation

Features and operating instructions for GPS systems

Road conditions for various routes, including sections undergoing road works

Physical hazards such as height, width and mass limitations of bridges, tunnels and other critical physical structures along a possible route

Known traffic conditions at various times of the day along specific routes

Security hazards and issues (where relevant)

Current information on accidents or emergencies that might close or restrict traffic on particular routes

Location of service stations and rest stops where relevant

Workplace requirements for recording and documenting route information

#### Required skills:

Communicate effectively with others when planning and navigating routes

Read and interpret instructions, procedures, information and signs relevant to the planning and navigation of routes, including: identification of town and suburb locations; identification of roads and intersections; reading and interpretation of map symbols; and estimation of route distances using map information

Access and interpret information required when planning and navigating transport routes and developing contingency routes (including road restrictions, traffic conditions, service stations/rest stops, etc.)

Interpret and follow operational instructions and prioritise work

Complete documentation related to the planning and navigation of routes

Operate electronic communication equipment to required protocol

Where applicable, work collaboratively with others when planning routes (such as fleet managers, sales team etc.)

Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others

Promptly report and/or rectify any identified problems that may arise when planning and navigating routes in accordance with workplace procedures

Plan for alternative routes in the event of contingencies such as road works, emergencies or delays

Implement contingency arrangements for unanticipated situations that may be identified when planning and navigating routes

Apply precautions and required action to minimise, control or eliminate hazards that may be identified during the planning and navigation of routes

Plan for transport routes to meet workplace requirements

Monitor work activities in terms of planned schedule

Modify route planning activities depending on differing operational contingencies, risk situations and environments

Apply an understanding of fatigue management knowledge and techniques

Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment

Adapt to changes in vehicle navigation technology, maps and street directories as they relate to route planning

Operate and adapt to differences in vehicles, loads and equipment in accordance with standard operating procedures

Select and use relevant route planning and navigation technology including GPS devices

Adapt to changes and difference in vehicle navigation technology, maps and street directories as they relate to route planning

## Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

### **Critical aspects for assessment and evidence required to demonstrate competency in this unit**

The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:

- the underpinning knowledge and skills
- relevant legislation and workplace procedures
- other relevant aspects of the range statement

### **Context of and specific resources for assessment**

Performance is demonstrated consistently over a period of time and in a suitable range of contexts

Resources for assessment include:

- a range of relevant exercises, case studies and other simulated practical and knowledge assessment, and/or

- access to an appropriate range of relevant operational situations in the workplace

In both real and simulated environments, access is required to:

- relevant and appropriate materials and/or equipment, and/or

- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals

### **Method of assessment**

Assessment of this unit must be undertaken by a registered training organisation

As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests

Practical assessment must occur:

- through appropriately simulated activities at

the registered training organisation, and/or  
in an appropriate range of situations in the  
workplace



## Range Statement

### RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

This unit covers:	work of transport and distribution personnel involved in passenger services and/or the delivery of a range of possible goods and materials including valuables, secured products and documents and materials
Operations may be conducted:	in a range of work environments and weather conditions by day or night
Customers may be:	internal or external
Routes will be planned in accordance with:	workplace guidelines with the development where required of alternative routes to accommodate contingency situations
Resources used in route planning and navigation may include:	maps street directories Global Positioning Systems (GPS) systems booklets and other information on road restrictions, traffic patterns, etc. broadcast information concerning traffic conditions, accidents, emergencies, weather, flooding, etc.
Transport areas may include:	metropolitan areas country and regional areas interstate locations
Route criteria may include:	potential hazards potential road conditions traffic conditions and flow workplace operating procedures and requirements the class of vehicle involved the type of load being carried

Potential hazards may include:

the availability of rest stops along the way

height, width and mass limitations of bridges, tunnels and other critical physical structures along a possible route

accidents and emergencies

extreme weather conditions

security risks

Depending on the type of transport service being provided, consultative processes may involve:

clients

other employees and supervisors

management

other professional or technical staff

private security personnel

public sector security personnel

police and other emergency services

security consultants

Communication in the work area may include:

mobile and fixed phones

radio

oral, aural or signed communications

Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:

standard operating procedures

company procedures

enterprise procedures

organisational procedures

established procedures

Information/documents may include:

workplace procedures and policies

route specifications

maps and street directories

published information on route hazards such as height, width and mass limitations of bridges, tunnels and other critical physical structures along a possible route

instructions for the use of in-vehicle GPS systems

competency standards and training materials

supplier and/or client route documentation

quality assurance procedures  
emergency procedures

Applicable regulations and legislation may include:

relevant state/territory road rules and traffic acts  
regulations and codes related to the transport of dangerous goods, explosives and hazardous materials

### **Unit Sector(s)**

Not applicable.

### **Competency Field**

H - Route Planning and Navigation