



**Australian Government**

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

# **TLIC4070A Tow a disabled heavy vehicle**

**Release: 1**

## **TLIC4070A Tow a disabled heavy vehicle**

### **Modification History**

Not applicable.

### **Unit Descriptor**

This unit involves the skills and knowledge required to hook up and unhook a damaged or disabled heavy vehicle.

Licensing, legislative, regulatory and certification requirements are applicable to this unit.

### **Application of the Unit**

This unit applies to those working in the heavy recovery industry. It does not include salvage operations.

### **Licensing/Regulatory Information**

Refer to Unit Descriptor.

### **Pre-Requisites**

Not applicable.

### **Employability Skills Information**

This unit contains employability skills.

## 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. Where bold italicised text is used, further information is detailed in the required skills and knowledge and/or the range statement. Assessment of performance is to be consistent with the evidence guide.

## Elements and Performance Criteria

### ELEMENT

### PERFORMANCE CRITERIA

#### **1 Prepare and respond to call**

1.1 Equipment is checked, serviced and operationally ready for use

1.2 Tow task information is obtained and the type of heavy vehicle and event is determined

1.3 Personal protective equipment (PPE) is selected relevant to the nature of the towing operation

1.4 Any further details of the event are received en route

#### **2 Implement road safety procedures to commence hook-up**

2.1 Disabled vehicle is approached and recovery vehicle is parked in accordance with safe roadside working procedures

2.2 Appropriate action is taken to ensure the safety of all occupants of the disabled vehicle

2.3 Occupants are moved to the safety of the recovery vehicle, away from the road and recovery vehicle equipment

2.4 Beacons are placed at the immediate approach to the breakdown scene

2.5 Authorities are notified if there is likelihood of danger or undue delays

2.6 All movements between vehicles are confined to the nearside if possible

### **3 Hook up disabled vehicle**

- 3.1 Exact nature of the problem is correctly diagnosed to decide on correct method of towing
- 3.2 Driver is informed of the recovery procedures that will be undertaken
- 3.3 Recovery vehicle is safely manoeuvred into position to facilitate recovery and to minimise inconvenience to traffic flow
- 3.4 Towing hook-up procedures are used to connect up disabled vehicle for recovery, ensuring safety standards adequate for the weight of the tow
- 3.5 Brake control system of the disabled vehicle is interconnected so the brakes can be operated from the recovery vehicle
- 3.6 Driveline is disconnected in accordance with manufacturer's guidelines and secured
- 3.7 Under lift boom is retracted to the shortest position suitable for towing and lock and check turning clearance
- 3.8 Warning lights and signs are attached in accordance with regulatory requirements
- 3.9 Final checks are undertaken and hook-up of disabled vehicle is completed in accordance with organisational and regulatory requirements
- 3.10 Disabled vehicle is safely towed using appropriate defensive driving techniques and procedures

### **4 Unhook disabled vehicle**

- 4.1 Disabled vehicle is safely manoeuvred into position in accordance with job requirements
- 4.2 Brakes of disabled vehicle are engaged and vehicle is chocked
- 4.3 Unhook procedures are used correctly to safely disconnect disabled vehicle
- 4.4 Removed driveline components that were disconnected are placed near disabled vehicle
- 4.5 Disabled vehicle is placed in accordance with organisational and customer requirements

### **5 Conclude towing operations**

- 5.1 Recovery vehicle and equipment are cleaned and serviced in accordance with organisational procedures and manufacturer's guidelines prior to standing down from the operation
- 5.2 Operational documentation is completed in accordance with organisational procedures



## Required Skills and Knowledge

### REQUIRED SKILLS AND KNOWLEDGE

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

#### Required knowledge:

- Road rules, regulations, permit and licence requirements of the relevant state and territory roads and traffic authority
- Distinguishing features of different types of registrable heavy transport vehicles
- Major components of modern heavy vehicles, including engine, transmission, differential and braking systems
- Occupational health and safety obligations
- Relevant persons of authority and their roles
- Risk assessment procedures to identify hazards and potential hazards
- Appropriate hook-up and unhook processes when towing disabled vehicles
- Manufacturer guidelines for operating towing equipment
- Techniques for driving safely when towing with regard to mass and dimension and other road users
- Fatigue management regulations
- Manufacturer guidelines for recovering vehicles and equipment
- Vehicle pre-trip equipment checks and preparation
- Procedures for using communication systems effectively

#### Required skills:

- Check equipment is ready for use
- Communicate effectively
- Work collaboratively with others when operating heavy recovery vehicles
- Implement contingency plans for unexpected events when operating a heavy recovery vehicle
- Apply precautions and required actions to minimise, control or eliminate hazards that may exist when towing a disabled heavy vehicle
- Monitor and anticipate traffic hazards and take appropriate action
- Modify activities depending on differing operational contingencies, risk situations and environments
- Apply fatigue management knowledge and techniques
- Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment
- Operate and adapt to differences in equipment in accordance with standard operating procedures

- Select and use required PPE, conforming to industry and OH&S standards
- Service heavy recovery vehicle equipment in terms of maintenance schedule and standard operating procedures



# Evidence Guide

## EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment section in Section B of the accreditation submission.

### **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:
  - conducting an equipment check of heavy recovery ancillary equipment
  - visually checking recovery equipment as per standard, and stowing appropriately
  - preparing a route to maximise safety and efficiency and meet organisational requirements
  - using eco-driving techniques when towing a disabled heavy vehicle
  - planning trip as required by legislation with a towed vehicle
  - using communication equipment in a recovery situation
  - correctly positioning vehicle at an incident
  - using PPE when towing a vehicle
  - isolating fault to componentry engine, differential, gearbox, chassis, etc.
  - interconnecting brakes and lights from recovery vehicle to disabled vehicle as per legislative requirements
  - applying signage as per legislative requirements
  - driving and operating recovery vehicle as per legislative requirements

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

- Assessment must ensure access to:
  - a recovery vehicle that is consistent with current industry standards of a heavy recovery vehicle
  - a vehicle that can be used as a disabled vehicle for the purposes of assessment
  - tools, equipment and PPE currently used in industry
  - relevant regulatory and equipment documentation that impacts on work activities

**Method of assessment**

- Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended
- In all cases where practical assessment is used it will be combined with targeted questioning to assess required knowledge
- Assessment processes and techniques must be appropriate to the language and literacy capacity of the candidate and the work being performed
- Simulation is not suitable for final assessment of this unit

## 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. Bold italicised wording in the Performance Criteria is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

- Authorities include:**
- police
  - fire
  - ambulance
  - relevant road authority
- Disabled vehicles include:**
- any road registered vehicle with a mechanical failure
  - any registrable vehicle with a mechanical failure
  - any vehicle as described in legislation
- Classes of heavy vehicle include:**
- light rigid
  - medium rigid
  - heavy rigid
  - heavy combination
  - multi combination
  - special circumstance vehicle
- Personal safety measures include:**
- gloves
  - safety headwear and footwear
  - safety glasses
  - two-way radios
  - protective clothing
  - high visibility clothing
  - eye wash kit
- Emergency equipment includes:**
- emergency shutdown controls
  - evacuation controls
  - spill equipment
- Documentation and records include:**
- transport regulations as they apply to the enterprise, including local authority regulations and procedures
  - workplace policies and procedures
  - relevant Australian standards and certification requirements
  - relevant internal data entry books, including log books, data sheets and load sheets
  - transport emergency response plan (TERP)
- Applicable legislative procedures and codes include:**
- relevant state and territory:
    - roads and traffic authority driving regulations and licence or permit requirements pertaining to operating

heavy vehicles on unsealed roads

- road rules
- OH&S legislation
- fatigue management regulations
- environmental protection legislation and regulations

## **Unit Sector(s)**

Not applicable.

## **Competency Field**

C – Vehicle Operation