



Australian Government

Department of Education, Employment and Workplace Relations

TLIB3105A Prepare electric passenger train

Release: 1

TLIB3105A Prepare electric passenger train

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to check and assess the operational capabilities of equipment prior to an electric passenger train entering service. Actions are completed in accordance with workplace requirements, including inspecting equipment and work area, checking the operational capability of equipment and its safety devices, identifying and assessing the impact of faults on safety and work requirements, and recording and reporting the results of inspection and testing in accordance with workplace procedures and relevant regulatory requirements. Licensing or certification requirements are not applicable to this unit.

Application of the Unit

Application of the Unit

Work must be carried out in accordance with codes/regulations and workplace requirements relevant to the preparation of an electric passenger train.

Work is generally performed without supervision and within a team environment. It involves the application of regulatory requirements and workplace procedures to the preparation of an electric passenger train.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability Skills 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. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Carry out pre-preparation checks	1.1 Location of train is determined in accordance with allocation procedures 1.2 Organisational safety controls are identified and acted upon 1.3 Relevant OH&S requirements are followed to prevent injury and damage
2 Inspect, start and test equipment	2.1 Required checks, procedures and standards are identified prior to start-up 2.2 Prior to start-up, relevant equipment is inspected in accordance with workplace pre-operational functional safety check procedures and operational instructions 2.3 Train is started up as per operational instructions 2.4 Following start-up, relevant equipment and components are tested in accordance with workplace procedures 2.5 Aspects of equipment found to be outside operational specifications are reported for appropriate action 2.6 Safety warning systems are checked for operational effectiveness 2.7 Control systems are checked in accordance with workplace policies and procedures 2.8 Train braking systems are applied and released to ensure they are operating correctly 2.9 Faults are identified and appropriate corrective action is taken to ensure operational safety
3 Carry out a visual inspection and check condition of the train	3.1 Visual inspection is conducted in accordance with workplace procedures to identify any defects that would prevent safe transit 3.2 Communication is maintained with relevant personnel to ensure safe, efficient and complete inspection 3.3 Condition of the train consist is visually inspected and faults are rectified and/or reported 3.4 Conditions requiring urgent action are noted and appropriate action is taken to initiate immediate response 3.5 Passenger facilities are checked to ensure that they are clean 3.6 Passenger operated equipment is visually checked to ensure operational readiness
4 Record and report faults/defects	4.1 Faults/defects are accurately reported in accordance with organisational requirements 4.2 Accurate records are kept in accordance with organisational requirements 4.3 Potential defects which may affect the future safety of the

ELEMENT	PERFORMANCE CRITERIA
	equipment are reported

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge:

- Workplace procedures and policies for the checking and assessing of the operational capability of equipment when preparing an electric passenger train for service
- The characteristics, capabilities and limitations of the equipment
- Problems that may occur when preparing an electric passenger train for service, and appropriate action that can be taken to resolve the problems
- Operational safety requirements when preparing an electric passenger train for service
- Housekeeping standards procedures required in the workplace

Required skills:

- Communicate effectively with others while preparing an electric passenger train for service
- Read and interpret instructions, procedures, information, labels and signs relevant to preparing an electric passenger train for service
- Interpret and follow operational instructions and prioritise work
- Complete documentation related to preparing an electric passenger train for service
- Work collaboratively with others when preparing an electric passenger train for service
- Promptly report and/or rectify any identified problems, faults or malfunctions in accordance with regulatory requirements and workplace procedures
- Implement contingency plans for unplanned events
- Apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities
- Monitor work activities in terms of planned schedule
- 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

Required skills:

- Select and use required personal protective equipment conforming to industry and OH&S standards
- Select and use relevant equipment and communications technology when checking and assessing the operational capability of equipment

Evidence Guide**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
- Assessment must include exercises which demonstrate competent performance of the following in a range of situations:
 - checking and testing train equipment
 - visually inspecting the exterior of an electric passenger train
 - reporting faults and inoperable equipment
 - completing preparation within agreed timeframes

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/or 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 equipment, and

EVIDENCE GUIDE

	• 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 activities in an appropriately simulated environment, 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.

Work may be conducted:	• by day or night
Workplaces may comprise:	• large, medium or small worksites
Work may be conducted in:	• a range of work environments • limited or restricted spaces • exposed conditions • controlled or open environments
Purpose of equipment checking and inspection is to ensure:	• it is free from damage, leaks and obstructions that may prejudice safety or limit operational capability • it operates within prescribed limits
Visual checks may include but are not limited to:	• pressure over/under specification • fluid leaks • temperature over/under specifications • cracks, surface or structural faults or other damage • tightness of bolts, fixtures and fittings within specifications
Records/results of pre-operation tests may include:	• details of faulty equipment or specific components • action taken • results of testing • details of repair and maintenance work to be undertaken

RANGE STATEMENT

Operational checks may be performed by:

- operating/checking the functionality of various pieces of safety and component equipment (where applicable)

Consultative processes may involve:

- workplace personnel
- supervisors and managers
- official representatives

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

- company procedures
- enterprise procedures
- organisational procedures
- established procedures

Personal protective equipment may include:

- gloves
- safety headwear and footwear
- safety glasses
- high visibility clothing

Communication in the work area may include:

- two-way radios
- telephones/mobile phones
- train to base radio
- hand signals
- flags
- oral
- written instructions

Information/documents may include:

- workplace procedures and policies for the preparation of electric passenger trains
- manufacturers specifications for equipment/tools
- supplier instructions
- relevant OH&S requirements and policies
- relevant Australian Standards and certification requirements
- material safety data sheets where applicable
- relevant legislation, regulations and related documentation
- award, enterprise bargaining agreement and other industrial arrangements
- quality assurance procedures
- emergency procedures

Applicable regulations and legislation may include:

- legislated rail safety requirements including acts and regulations from the applicable state together with any nationally approved compliance codes and/or guidelines
- relevant standards, codes and regulations pertaining to the checking and operation of the equipment concerned
- relevant state/territory OH&S legislation
- relevant state/territory environmental protection legislation

RANGE STATEMENT

- workplace relations regulations including equal opportunity, equal employment opportunity and affirmative action legislation
- workers compensation regulations

Unit Sector(s)

Not Applicable

Competency Field

Competency Field B - Equipment Checking and Maintenance