



Australian Government

Department of Education, Employment and Workplace Relations

TLIL3035A Allocate motive power

Release: 1

TLIL3035A Allocate motive power

Modification History

Not Applicable

Unit Descriptor

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This unit involves the skills and knowledge required to allocate motive power in accordance with workplace procedures and the requirements of relevant safeworking regulations and codes of practice. It includes identifying train operating requirements, establishing motive power requirements and availability, allocating individual motive power units, and adjusting motive power allocation in accordance with workplace requirements. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

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Persons achieving competence in this unit will need to fulfil the applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines.

Work is performed individually and skills are required to work within a team environment. It involves the application of routine operational principles and procedures to allocate motive power across a variety of operational contexts in the Australian rail systems.

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 Identify train operating requirements	1.1 Train timetables, shunting requirements and track conditions for each line or service are identified and records kept up to date 1.2 Tonnage of individual trains is identified to enable planning of suitable motive power 1.3 Routine usage of motive power units is established to provide an initial allocation framework 1.4 Contingency plans covering operational problems are developed and their impact on motive power requirements taken into account
2 Establish motive power requirements and availability	2.1 Availability of all motive power units is determined including location, operational status, special and routine maintenance requirements 2.2 Motive power required to haul tonnage is determined for each train/service and support activity consistent with track geography, gauge, train weight and conditions is identified
3 Allocate individual motive power units	3.1 Motive power units, including railcar and locomotive types, are allocated to ensure train and support activities are serviced 3.2 Allocations are documented and communicated to operations personnel and feedback sought to ensure suitability of units planned 3.3 Relevant OH&S requirements are identified and included in the allocation considerations 3.4 Documentation authorising the use of allocated motive power for the train service is completed and processed
4 Monitor and adjust motive power allocation	4.1 Use and requirements for motive power are monitored and possible allocation changes determined to maintain efficient use of resources 4.2 Contingency plans for unexpected non-availability of specific motive power units or operational non-performance are implemented 4.3 Changes to allocation are negotiated with operational personnel and motive power maintenance personnel to achieve suitable outcomes

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge:

- Applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines
- Relevant OH&S and environmental procedures and regulations including codes of practice
- Workplace procedures and policies for allocating motive power
- Motive power units and specifications, capabilities and capacity
- Crew requirements and working patterns
- Allocation and maintenance schedules of motive power units
- Track specifications and limitations
- Gauges, distance, gradients and tonnages for relevant track area
- Communication requirements
- Load types
- Timetables and train details
- Emergency procedures
- Relevant industrial awards and agreements
- Equipment, and materials used when allocating motive power, and procedures that should be followed in their use
- Problems that may occur when allocating motive power and appropriate action that can be taken to resolve the problems
- Communication and negotiation requirements when allocating motive power
- Documentation and record requirements

Required skills:

- Communicate and negotiate effectively with others when allocating motive power
- Read and interpret instructions, procedures and information relevant to the allocation of motive power
- Read and interpret train graphs and diagrams
- Interpret and follow operational instructions and prioritise work
- Complete documentation related to the allocation of motive power
- Operate electronic communication equipment to required protocol
- Work collaboratively with others when allocating motive power
- Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others
- Promptly report and/or rectify any problems, faults or malfunctions that are identified when allocating motive power in accordance with regulatory requirements and workplace procedures

Required skills:

- Implement contingency plans for unanticipated situations that may arise when allocating motive power
- 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
- Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment
- Select and use relevant computing and communications equipment and materials when allocating motive power
- Operate and adapt to differences in equipment in accordance with standard operating procedures
- Select and use required personal protective equipment conforming to industry and OH&S standards

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

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

EVIDENCE GUIDE

	required to:
	• relevant and appropriate materials and equipment, and • 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 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.

Operations may be:	• conducted by day or night • in all relevant weather conditions
Motive power allocated may include:	• locomotives and self propelled railcars • steam locomotives • diesel and electric types
Resources may include:	• timetables • track and shunting requirements • motive power units • relevant workplace policy • authorisation documentation
Trains/services for which allocations are made may include:	• short distance freight • long distance passenger service • work trains • special trains • long distance freight • urban passenger service

RANGE STATEMENT

Establishing motive power requirements and availability may take into consideration:	• train service motive power requirements • support activities such as shunting • operating policies • track specifications and limitations • distances • communication requirements • tonnages • double ended locomotives • coupling requirements • available motive power units • gauges • crew requirements • gradients • load types • configuration
Contingency processes may involve:	• non-availability of specified motive power • equipment failure • operational breakdowns • communications difficulties
Consultative processes may involve:	• workplace personnel including supervisors and managers • other professional or technical staff
Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:	• company procedures • enterprise procedures • organisational procedures • established procedures
Information/documents may include:	• applicable legislated rail safety requirements including acts and regulations from each state and territory together with any nationally approved compliance codes and/or guidelines • the Code of Practice for the Defined Interstate Rail Network in situations where marshalling operations are carried out on that network • workplace rules and operating procedures • train graphs • timetables • printouts from office machines • displays on computer monitors • hard copy documentation • computer based data systems • verbal and written information from relevant staff and

RANGE STATEMENT

- Applicable procedures and codes may include:
- management
 - conditions of service, legislation and industrial agreements including workplace agreements and awards
 - relevant state/territory codes of practice and safeworking system requirements
 - the Code of Practice for the Defined Interstate Rail Network in situations where marshalling operations are carried out on that network
 - relevant Australian Standards and related requirements
 - relevant state/territory OH&S legislation
 - relevant state/territory environmental protection legislation

Unit Sector(s)

Not Applicable

Competency Field

Competency Field L - Resource Management