

MNQOP21A

Unit Descriptor

Unit Sector

Conduct front end loader operations

This unit covers the removal of bulk material by either sidecasting or loading directly into a transport system using a Front End Loader.

No sector assigned

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare for operations	1.1 Safety rules and regulations, induction including quarry rules and legislation and site specific instructions are observed. 1.2 Basic geological and technical data required to complete the allocated task is received, applied and clarified in accordance to site requirements. 1.3 Pre-start checks are carried out in accordance with manufacturer and/or site authorised procedures. 1.4 Briefings or handover details are received, interpreted and clarified in accordance with site requirements. 1.5 Work area preparation, including floor clean up, to specification level and grade requirements is co-ordinated with others and carried out to job specifications.
2. Operate front end loader	2.1 Start-up, park-up, shut-down and communication procedures are carried out in accordance with manufacturers' and/or site specific requirements. 2.2 Front-end loader operations are conducted, controlled and monitored within equipment and operational limitations during the shift. 2.3 Safe operating practices, including operating controls, monitoring gauges and systems, conducting safety checks and use of two way radio for communication are carried out within manufacturers' and/or site specific requirements. 2.4 Loading technique is selected and modified to appropriately meet changing work conditions which may include variable grades, work under high faces, work with varying materials, haulage units and materials handling facilities. 2.5 Operations are conducted in all weather conditions by day and night within safety requirements. 2.6 Emergency procedures are carried out in accordance with the manufacturers' and/or quarry procedures. 2.7 Towing of equipment or plant is carried out safely and in accordance with the authorised equipment and connection capabilities. 2.8 Operations are carried out in accordance with site quality plan. 2.9 Work is carried out in accordance with agreed plan and outcomes and within the operating capacities/manufacture's specifications of allocated equipment.

3. Carry out basic operator maintenance
- 3.1 Inspection and fault finding are conducted in accordance with manufacturers' specifications and/or site requirements and reported.
 - 3.2 Routine operational servicing and lubrication tasks are carried out to manufacturers' and/or site requirements.
 - 3.3 Minor maintenance is carried out to manufacturers' and/or site requirements.
 - 3.4 Records are maintained in accordance with site requirements.
 - 3.5 Vehicle washing and housekeeping is carried out to manufacturers' and/or site requirements.
 - 3.6 Operator support is provided during preparation for and conduct of major maintenance tasks in accordance with site requirements if required.

KEY COMPETENCIES

Key Competency	Performance Level
Communicating ideas and information	1
Collecting analysing and organising information	1
Planning and organising activities	1
Working with others and in teams	1
Using mathematical ideas and techniques	1
Solving problems	1
Using technology	1

RANGE STATEMENT

Briefing handover details may include but are not limited to:

- worksite inspection
- defects on machine
- nature and scope of task
- adequacy of site lighting
- potential hazards - overhangs, large rocks, bench edges, powerlines

Legislative/regulative adherence shall include but is not limited to:

- Occupational Health and Safety
- Duty of Care
- Environmental
- Mines Department/Extractive Industries

Safe operating procedures may include but are not limited to:

- observing site speed limits
- working safely around overhead powerlines
- working safely around other machines and personnel

Front End Loader type may vary.	• Loading Techniques may vary depending upon units being loaded and site conditions. Materials must be loaded along centre line of vehicle to maintain the centre of gravity and to prevent segregation.
Applications may include but are not limited to:	• formatting maintenance of stockpiles and dumps • loading procedures • product blending
Haulage Units may include but are not limited to:	• rear dump • belly-dumps • road trucks
Materials Handling facilities may include but are not limited to:	• crusher • conveyor lines • screens, feeders • bins and hoppers and stockpiles
Weather Conditions may include but are not limited to:	• Visibility - day/night
Communications may include but is not limited to:	• Two-way radio • Reporting defects to appropriate department/personnel

EVIDENCE GUIDE

Context

Competency must be assessed in the normal or simulated work environment within the bounds of safety and in accordance with the approved dig and loading procedures.

Assessment shall include those aspects of the Core Competencies that are consistent with the work environment of this Unit.

Guidelines will be in line with statutory requirements, enterprise specific policies and procedures and codes of practice.

Critical Aspects and Evidence

It is essential that competence is fully observed in the critical aspects of:

- Operational safety compliance with Occupational Health and Safety, Environmental, Legislation/Regulation and organisational policies and procedures
- Interpreting and communicating operational information
- Start-up, walkaround, park-up, shut-down procedures and walk around inspections
- Implements to ground at shutdown
- Required loading methods including single and double-sided
- Safe loading procedures
- Use of 'Loadweigh' technology or similar
- Floor preparation
- Operator maintenance
- Towing procedures
- Stockpile maintenance
- Implements to ground at shutdown
- Emergency Procedures
- Quality requirements
- The ability to transfer the competency to changing circumstances is identified from demonstration of the required response.
- Response to emergency situations and actions.

Underpinning Knowledge and Skills**Knowledge**

A knowledge of:

- Site and equipment safety requirement
- Equipment characteristics, technical capabilities and limitations
- Operational and maintenance procedures
- Basic geological and technical data

Skills

The ability to:

- Apply eye-hand co-ordination
- Access, interpret and apply technical information
- Maintain equipment records
- Use relevant hand tools
- Apply basic diagnostic techniques
- Work in confined space
- Work wearing personal protective equipment
- Work at heights
- Operate front end loaders in accordance with site/manufacture's specifications

Resource Implications

The resources available will be specific to this competency, the individual employer and the particular worksite as required to comply to the other elements of this unit.

Interdependence of Units

- Pre-requisites - Unit MNQ.OP/01.A of Operator
- Interrelationship of Units - this unit may need to be applied in conjunction with units MNQ.OP/01.0.A, MNQ.OP/02.A, MNQ.OP/03.A, MNQ.OP/04.A, MNQ.OP/05.A, MNQ.OP/08.A, MNQ.OP/09.A, MNQ.OP/10.A, MNQ.OP/12.A, MNQ.OP/13.A, MNQ.OP/14.A, MNQ.OP/28.A, MNQ.OP/29.A

Consistency of Performance

Competency in this unit needs to be assessed over a period of time to ensure consistency of performance in a range of environments, using a range of assessment instruments.