

MNQOP22A

Unit Descriptor

Unit Sector

Conduct shovel/excavator operations

This unit covers the removal of bulk material by either sidecasting or loading directly into a transport unit using a shovel or excavator.

No sector assigned

ELEMENT

PERFORMANCE CRITERIA

- | | |
|--------------------------------|--|
| 1. Plan and prepare operations | <ul style="list-style-type: none">1.1 Safety rules and regulations, induction including site rules and legislation and site specific instructions are observed.1.2 Basic geological and technical data required to complete the allocated task is received and applied in accordance to site requirements.1.3 Pre-start checks are carried out in accordance with manufacturers' and/or site authorised procedures.1.4 Cable towers and/or crossovers are positioned/moved in accordance with site plans and requirements.1.5 Briefings or handover details are received, interpreted and clarified in accordance with site requirements.1.6 Work area preparation, including floor clean up and level and grade requirements is coordinated with others and carried out to job specifications. |
|--------------------------------|--|

- 2. Operate excavator
 - 2.1 Start-up, park-up and shutdown and communication procedures are carried out in accordance with manufacturers' and/or site specific requirements.
 - 2.2 Excavator is walked and where appropriate cable positioned and monitored in accordance with manufacturers' and/or site requirements.
 - 2.3 Safe operating practices, identification of hazards in the workplace 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 Required loading method, single-sided and double-sided, or other appropriate method is selected and the equipment and trucks positioned to meet this requirement. NB: In the case of an excavator which does not load directly to a vehicle, Performance Criteria 2.4 does not apply.
 - 2.5 Operating procedures to fill and load are conducted, controlled and monitored in accordance with manufacturers and/or site procedures including those covering truck loading.
 - 2.6 Operations are conducted in all weather conditions by day or night, within safety requirements.
 - 2.7 Emergency procedures are carried out in accordance with the manufacturers' and/or site procedures.
 - 2.8 Work is carried out in accordance with the agreed plan and outcomes and within the operating capacities/manufacturers specifications of the allocated equipment.
 - 2.9 Operations are carried out in accordance with site quality plan.
- 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, lubrication and housekeeping 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 Operator support is provided during preparation for and conduct of major maintenance tasks in accordance with site requirements, if required.
 - 3.5 Vehicle washing and housekeeping is carried out to manufacturer's and/or site requirements.
 - 3.6 Records are maintained in accordance with site requirements.

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

Briefings/handover details may include but are not limited to:

- worksite inspection
- defects on machine
- nature and scope of task
- position of cable
- potential hazards - large rocks, bench edges, overhangs, 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:

- tramming procedures
- working safely around overhead powerlines
- loading procedures

Excavator may be but are not limited to:

- electric
- diesel
- rope or hydraulic and may include a face shovel

Implements may include but are not limited to:

- dipper
- clam
- bucket
- hydraulic breaker
- crane hook
- drop ball
- ripper

Civil works to include:

- stone
- road works
- contours
- batters
- scrub clearing
- rehabilitation
- final land forms and the inspection of associated survey papers
- sealing
- tailing dams
- drainage
- earthworks eg stripping/overburden

Communications may include but are not limited to:

- two-way radio
- reporting defects to appropriate department/personnel

Weather conditions may include:

- Visibility day/night

EVIDENCE GUIDE

Context

Competency must be assessed in the normal or simulated work within the bounds of safety and in accordance with the approved 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, park-up and shut-down procedures
- Loading methods
- Floor preparation
- Operator maintenance
- Safe loading procedures
- 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 requirements
- Equipment characteristics, technical capabilities and limitations
- Operational and maintenance procedures
- Basic geological and technical data

Skills

The ability to:

- Apply eye-hand coordination
- Access, interpret and apply all information
- Maintain equipment records
- Use relevant hand tools
- Apply basic diagnostic techniques
- Work in confined spaces
- Work wearing personal protective equipment
- Work at heights
- Operate shovel/excavator 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.A, MNQ.OP/02.A, MNQ.OP/03.A, MNQ.OP/04.A, MNQ.OP/05.A, MNQ.OP/08.A, MNQ.OP/10.A, MNQ.OP/12.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.