

MNQOP20A

Unit Descriptor

Conduct grader operations

This unit covers the planned grading and ripping of materials using a grader.

Unit Sector

No sector assigned

ELEMENT

PERFORMANCE CRITERIA

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| 1. Plan and prepare for grader 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, clarified and applied in accordance to site requirements. |
| | 1.3 Pre-start checks are carried out in accordance with manufacture and/or site authorised procedures. |
| | 1.4 Briefings or handover details are received, interpreted and clarified in accordance with site requirements. |
| 2. Operate grader | 2.1 Start-up, park-up, shut-down and communications procedures are carried out in accordance with manufacturers and/or site specific requirements. |
| | 2.2 Grader controls and functions, including blade, scarifiers, articulation, wheel tilt and manoeuvring are used to complete a range of tasks. |
| | 2.3 Operations are conducted in all weather conditions by day and night within safety requirements. |
| | 2.4 Working with other equipment and personnel is carried out in accordance with authorised safety procedures and site work practices. |
| | 2.5 Emergency procedures are carried out in accordance with manufacturers' and/or quarry requirements |
| | 2.6 Towing of equipment and plant is carried out safely and in accordance with the authorised equipment and/or connection capabilities. |
| | 2.7 Work is carried out in accordance with the agreed plan and outcomes and within the operating capacities/manufacturers specifications of the allocated equipment. |
| | 2.8 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.
 - 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 Records are maintained in accordance with site requirements.
 - 3.6 Vehicle washing is carried out to manufacturers specifications and/or 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
- potential hazards
- adequacy of site lighting

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

Grader tasks may include:

- grade and form roads and pads
- maintenance of surfaces
- cut batters and drains
- and other site specific requirements
- ripping
- drill pad construction/maintenance
- laser levelling

Surfaces may include but are not limited to:

- haulroads
- access roads
- pads
- stockpiles
- cleaning in preparation for quarrying and rehabilitation
- dumps
- highwalls
- drainage
- bundwall
- benches

Materials may include but are not limited to:

- overburden
- stone
- gravel
- mud
- sand
- topsoil

Civil works may include but are not limited to:

- road works
- contours
- batters
- scrub clearing
- rehabilitation final landform and the interpretation of associated survey pegs
- drainage

Weather Conditions may include but are not limited to:

- Visibility day and night
- Prevailing winds

Communications may include but are 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 work 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, shut-down procedures and walk around inspection
- Smooth and efficient operating procedures
- Implements to ground at shutdown and park up
- Towing other equipment
- Grading and ripping materials
- Road maintenance
- Civil works
- Operator Maintenance
- Emergency Procedures
- Quality requirements
- Use of laser control equipment
- Reporting Procedures
- 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
- Problem solving techniques
- Basic diagnostic techniques

Skills

The ability to:

- Apply eye-hand co-ordination
- Access, interpret and apply technical information
- Maintain equipment records
- Use relevant hand tools
- Apply problem solving techniques
- Apply basic diagnostic techniques
- Work in confined spaces
- Work wearing personal protective equipment
- Work at heights
- Operate graders in accordance with site/manufacturers 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/12.A, MNQ.OP/13.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.