MPQMG20
Operate and control drilling-related powered plant or machinery

Overview

This standard is designed to assess the candidate's competence to operate and control powered drilling plant or machinery. It confirms their ability to prepare the plant and machinery and to check that the equipment is safe and fully operational. It includes operating the plant or machinery ensuring safety and security in the work environment, including the need to be aware of work personnel or members of the public, who may have contact with the activity. Throughout the range of activities there is the need to communicate with others and candidates should be seen to be able to do this. During this work the candidate must communicate with others and take account of the relevant operational requirements and safe working practices.

These standards apply to operator and driver occupations across the whole range of powered drilling plant and machinery in all industrial contexts.

Performance criteria

You must be able to:

P1 agree with others the work to be carried out

P2 check the availability and suitability of the **resources** required for the operation of the **plant or machinery**, and completion of the work

P3 identify the working area and check that it is safe and prepared for the work activity

P4 check and confirm that the **plant or machinery** is safe and ready to operate

P5 follow start up procedures according to organisational and safety requirements

P6 set up the **plant or machinery** to drill to specification

P7 set up operational safeguards for the work activity

P8 operate the **plant or machinery** in accordance with **approved policies, procedures and practices**

P9 monitor the performance of the **plant or machinery**

P10 make adjustments to the **plant or machinery**

P11 make adjustments to the work plan as required to complete the work within the limits of your responsibilities

P12 carry out the work minimising risks to yourself, others, plant or machinery and the work environment

P13 follow shut down procedures according to organisational and safety requirements

P14 report according to organisational requirements

Knowledge and understanding

You need to know and understand:

K1 the organisational **approved policies, procedures and practices** as appropriate to the work activity

K2 the organisational information, communications and reporting arrangements relating to the work activity

K3 the **resources** required to support the work activity, their uses, how to check them, and how to secure, store or dispose of after use

K4 how to carry out pre-start checks of the **plant or machinery**

K5 how to set up the **plant or machinery** for work activities

K6 the operational safeguards that should be in place, and their purpose

K7 the operational instructions for starting, operating, monitoring, adjusting, shutting down (in routine and emergency situations), and securing after use the **plant or machinery**

K8 the operational parameters, characteristics, capacity and limitations of the **plant or machinery**

K9 when and why adjustments to the **plant or machinery**, and the work activity may be required

K10 the hazards and risks associated with the work activity, how they affect yourself, others and the work environment, and how they are controlled

K11 the problems that can occur with the work activity, and how to respond to them

K12 the limits of your own role and responsibilities

K13 the actions to be taken in the event of damage, breakdown or unsatisfactory performance of plant, machinery, equipment or resources

K14 organisational reporting arrangements for the work activity

Additional information

Scope/range

1. **approved policies, procedures and practices**: legislative, organisational, operational, accident or emergency, health and safety, first aid, and environmental as appropriate to the mine, plant or machinery, and work activity
2. **plant or machinery**: operate one or more types of powered drilling plant or machinery to drill holes in rock or ground
3. **resources**: tools; equipment; utilities and services; consumables; attachments; replaceable parts; other resources as appropriate to the work activity

MPQMG20
Operate and control drilling-related powered plant or machinery

Developed by	MPQC
Version number	1
Date approved	February 2014
Indicative review date	December 2019
Validity	Current
Status	Original
Originating organisation	MPQC
Original URN	MPQMG20
Relevant occupations	Mineworker; Coal mine operatives
Suite	Mining Operations
Key words	drilling; extractives; exploratory drilling; land drilling; directional drilling; fluid operations; rig erection; mining; operations; mines; excavated; underground; extraction; extracted; materials; rock; ground