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MINING ENGINEER – COAL

Description

To complete the tasks and responsibilities of a mining engineer specific to coal mining.

Competencies

Competencies will vary on level of experience, and on the area of specialization of each individual engineer. Competencies should range through the areas of project management, underground coal mine design, planning and operation, financial evaluation of projects, report preparation, and some experience in open cast surface coal mining.

Key Performance Indicators

Key Performance Indicators include:

- Completion of allocated tasks within the time frame and budget set for the task
- Co-operation and communication with other staff
- Adherence to Quality and OHS procedures
- A thorough and dedicated approach to any given task

Qualifications

Degree in mining engineering. Other qualifications may be acceptable subject to the particular discipline of the group.

Responsibilities

Performance of engineering assignments at various locations associated with particular projects. Office based analysis and design arising from either Mining One derived data or data supplied by others. Preparation of reports for review by the Project Manager.

Primary Duties

- Underground design, planning and optimization
- Longwall design and operation
- Room & Pillar design and operation
- Mining reserve calculations
- Underground Drill and fire optimization
- Preparation of contracts
- Ventilation modeling
- Methane drainage and control
- Dust control and fire prevention
- Spontaneous combustion control
- Feasibility studies and projects
- Mine services including transportation of men and materials
- Mine infrastructure
- Mine planning and optimization
- Mine development and face planning
- Software and systems implementation
- Long and short term operations scheduling
- Mine economics including budgets and forecasts

Secondary Duties

- Open Cut design, planning and optimization
- Reserve calculations
- Open Pit Drill and blast optimization
- Open cast truck and shovel optimization

Software Requirements (ideal)

- Minex / Vulcan / Minescape
- XPAC / Mineworks Planner / EPS
- Ventsim or similar