

# DRILLER

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## POLICIES AND LEGISLATION



2h 30 min

- x x Lesson 1 | Comply with Company Policies and Procedures
- x x Lesson 2 | Understand and Comply with Applicable Workplace Legislation and Regulations

## WORK SAFELY



12h 5 min

- x x Lesson 1 | Select, Use and Maintain Personal Protective Equipment (PPE)
- x x Lesson 2 | Practice and Maintain Good Housekeeping
- x x Lesson 3 | Identify and Respond to Workplace Hazards
- x x Lesson 4 | Manually Lift and Carry Materials
- x x Lesson 5 | Work Around Mobile Equipment
- x x Lesson 6 | Work Around Stationary Equipment
- x x Lesson 7 | Work Around Water Hazards
- x x Lesson 8 | Prepare for Hot Work
- x x Lesson 9 | Recognize Authorized and Restricted Areas

## SIGNS, BARRICADES, TRAFFIC, PLANS AND DRAWINGS



8h 20 min

- x x Lesson 1 | Recognize and Comply with Signage, Barricades, Audible Alarms and Equipment Light Indicators
- x x Lesson 2 | Install, Remove, Maintain and Store Signs and Barricades
- x x Lesson 3 | Recognize and Comply with Traffic Management Plans
- x x Lesson 4 | Understand and Use Information Presented on Plans and Drawings

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## FIRE SAFETY



9h 50 min

- x x Lesson 1 | Be Prepared to Respond to Fires
- x x Lesson 2 | Extinguish Minor Fires
- x x Lesson 3 | Fire Prevention
- x Lesson 4 | Be Prepared for Wildfires

## EMERGENCY SITUATIONS



8h 5 min

- x x Lesson 1 | Prepare for Emergency Situations and Conditions
- x x Lesson 2 | Comply with Workplace Hazardous Materials Information Systems (WHMIS)
- x x Lesson 3 | Participate in Safety Programs
- x x Lesson 4 | Understand, Respond to and Report Emergencies

## ENERGY SOURCES



2h

- x x Lesson 1 | Lock Out, Tag, Deenergize and Test Equipment
- x x Lesson 2 | Work Around Energy Sources

## COMMUNICATION



13h 10 min

- x x Lesson 1 | Listen Actively
- x x Lesson 2 | Speak Clearly and Concisely
- x x Lesson 3 | Use Communication Devices
- x x Lesson 4 | Convey Message Using Signals
- x x Lesson 5 | Use Workplace Technologies
- x x Lesson 6 | Complete Workplace Documentation

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## BE PROFESSIONAL



8h 15 min

- x x Lesson 1 | Work in a Team Environment
- x x Lesson 2 | Work in a Culturally Diverse Environment
- x x Lesson 3 | Maintain Good Community Relations
- x x Lesson 4 | Demonstrate High Standards of Conduct

## EQUIPMENT KNOWLEDGE



3h 55 min

- x x Lesson 1 | Demonstrate Equipment Knowledge
- x x Lesson 2 | Working with Mobile Equipment
- x x Lesson 3 | Work with Stationary Equipment

## PROTECT THE ENVIRONMENT



8h 40 min

- x x Lesson 1 | Comply with Environmental Policies, Procedures and Permits
- x x Lesson 2 | Apply Spill Containment Measures
- x x Lesson 3 | Manage Waste
- x x Lesson 4 | Manage Fuels and Other Hazardous Materials
- x x Lesson 5 | Respond to Spills

## OPERATE SUPPORT EQUIPMENT



2h 20min

- x x Lesson 1 | Operate pumps
- x x Lesson 2 | Operate mixers

## USE HAND AND POWER TOOLS



7h 55min

- x x Lesson 1 | Demonstrate hand and power tool knowledge
- x x Lesson 2 | Use power, cordless, pneumatic, powder actuated and hydraulic powered tools
- x x Lesson 3 | Operate grouting equipment
- x Lesson 4 | Operate mobile generators

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## WORKING UNDERGROUND

- x Lesson 1 | Mine Entry Management (Tag In Tag Out)
- x Lesson 2 | Inspect ventilation



## SCALE LOOSE ROCK

- x Lesson 1 | Recognize loose or abnormal ground conditions
- x Lesson 2 | Recognize faulty ground support
- x Lesson 3 | Wash rock surfaces
- x Lesson 4 | Scale rock



## PERFORM GENERAL SERVICES

- x Lesson 1 | Knowledge of installation and maintenance of systems and lines



## INSTALL STAGING

- x Lesson 1 | Plan for staging
- x Lesson 2 | Install, construct and inspect staging and work platforms
- x Lesson 3 | Install, construct and inspect mechanical staging
- x Lesson 4 | Remove and store staging



## CONDUCT LIFTING OPERATIONS

- x x Lesson 1 | Plan lift
- x x Lesson 2 | Set up lift
- x x Lesson 3 | Rig and secure load
- x x Lesson 4 | Test and make the lift
- x x Lesson 5 | Dismantle and store lifting equipment



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## SURFACE SITE SET-UP

- x Lesson 1 | Follow land use plans and/or permit guidelines
- x Lesson 2 | Construct access routes



## PERFORM DRILLING OPERATIONS

- x Lesson 1 | Demonstrate hand drill knowledge
- x Lesson 2 | Operate stopper
- x Lesson 3 | Operate jackleg
- x x Lesson 4 | Maintain drill support services
- x x Lesson 5 | Prepare and maintain all in-hole tools
- x x Lesson 6 | Grout drill holes
- x x Lesson 7 | Transport drill



## PERFORM DIAMOND DRILLING OPERATIONS

- x x Lesson 1 | Understand and demonstrate diamond drill knowledge
- x x Lesson 2 | Understand and explain rock hardness in relations to bit matrix hardness
- x x Lesson 3 | Explain different diamond bit types and attributes
- x x Lesson 4 | Demonstrate understanding of bit usage
- x x Lesson 5 | Understand basic geology
- x x Lesson 6 | Operate diamond drill
- x x Lesson 7 | Recover core sample



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## PERFORM MUD ROTARY DRILLING OPERATIONS



5h 55min

- x Lesson 1 | Understand and demonstrate mud rotary drill knowledge
- x Lesson 2 | Understand and operate mud pump/mud pump selection
- x Lesson 3 | Understand and demonstrate the design and mixing of drill muds
- x Lesson 4 | Prepare and maintain mud recirculation systems
- x Lesson 5 | Understand basic geology
- x Lesson 6 | Operate mud rotary drilling

## PERFORM AIR ROTARY DRILLING OPERATIONS



7h 25min

- x Lesson 1 | Understand and demonstrate air rotary drill knowledge
- x Lesson 2 | Understand CFM/PSI requirements surround borehole diameter and depth
- x Lesson 3 | Understand DTH hammer and tooling
- x Lesson 4 | Understand drilling fluid usages and requirements
- x Lesson 5 | Understand and demonstrate troubleshooting air compressors
- x Lesson 6 | Understand basic geology
- x Lesson 7 | Operate air rotary drilling

## PERFORM SONIC DRILLING OPERATIONS



4h 15min

- x Lesson 1 | Understand and demonstrate sonic drill knowledge
- x Lesson 2 | Understand and demonstrate safe ancillary equipment setup
- x Lesson 3 | Understand and demonstrate the design and mixing basic drill muds
- x Lesson 4 | Understand basic geology
- x Lesson 5 | Operate sonic drill

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## PERFORM AUGER DRILLING OPERATIONS



3h 45min

- x Lesson 1 | Understand and demonstrate auger drill knowledge
- x Lesson 2 | Understand auger tooling and preparation
- x Lesson 3 | Demonstrate and understand down hole troubleshooting
- x Lesson 4 | Understand basic geology
- x Lesson 5 | Operate auger drilling

## OPERATE PROCESSING EQUIPMENT



35min

- x x Lesson 1 | Inspect and maintain hoses

Surface Driller 124h 40 min  
Underground Driller 108h 30min

