Milwaukee Training

250XP P&H Drill Systems Maintenance

Course Duration
4 days

Target Audience

Electricians, Mechanics, Technicians and Engineers who will service and maintain P&H Mining Blasthole Drill.

Course Objectives

Upon completion of this course the student will be able to:

- Identify and explain the purpose of all the major Systems and components.
- Demonstrate proficiency in reading, interpreting and use mechanical and electrical schematics.
- Understand and describe maintenance and service procedures for main systems.
- Conduct failure analysis.
- Explain the inter-relationship of the drill systems.

Main Concepts

- Machine Intro and Overview
- Machine Systems
- Power Unit
- Main Air
- Main hydraulics
- Auxiliary Hydraulics
- Rotary System
- Hoist/Pulldown System
- Rotary Carriage
- Mast
- Undercarriage
- Propel Systems
- Electrical and Control
- System Maintenance and Service

Course Location

Milwaukee

Description

This course introduces the student to the operation and maintenance of the P&H Blasthole Drill. It focuses on critical knowledge and skills required in supporting current production models of the P&H Blasthole Drills.

The topics include Main systems and components, operation, maintenance troubleshooting and service. Maintenance and troubleshooting concepts are analyzed in a team environment, allowing the student to gain knowledge based on real world problems and experience.

Prerequisites

Students should have a basic knowledge of fluid power concepts, electronics and computers.
It is also suggested that students complete the Systems overview and machine overview eLearning modules prior to coming to the course.

P&H Peak Services

Milwaukee Training

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Monday	Tuesday	Wednesday	Thursday
Introduction • Review of Agenda • Material Review • Schematics Symbols • Main Motions • Machine Systems **Main Air System** • System Overview • Main Air System (Start Up) • Main Air System Oil Circulation **Lunch** • Main Air System Compression • Main Air System Control • Main Air System Air Production • Maintenance and Troubleshooting **Q&A**	**Main Hydraulic System** • System Overview • Schematics Reading • Closed Circuit • Hydraulic Tank • Hydraulic Pumps • Hydraulic Propel Motors • System Control • Propel System • Maintenance and Troubleshooting **Lunch** **Auxiliary Hydraulics** • System Overview • Schematics • Open Circuit • Pump • Valve Banks • VB1 • VB2 • VB3 • Low Pressure Circuit • Auto Leveling • System Relief • Maintenance and Troubleshooting **Q&A**	**Rotary System** • Rotary Carriage • Rotary Motors • System Control • Speed • Maintenance and Troubleshooting **Hoist/Pulldown** • Rotary Carriage • Pulldown Motors • System Control **Lunch** • Speed • Maintenance and Troubleshooting **Mast** • Inspection and Maintenance **Q&A**	**Undercarriage** • Sideframes • Equalizer • Axle • Adjustments • Inspection and Maintenance **Pipe Handling** • Pipe Racks • Breakout Wrench • Winch **Lunch** **Electronics and Control** • PLC/SLC • GUI • Panels • Cabinets • Cables • Motors • Maintenance and Troubleshooting **Q&A** **Review & Assessment** **Rap up**

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