

Electrical Troubleshooting Multi-gear Drawworks

Overview

Product training for multi-gear drawworks type GH4500 including

- Classroom training
- TTL training (Technical Training Laboratory)
- Simulator training based on HMM HMI

This is an open-class training. The training content is not project specific or customized.

Course description and learning objectives

Electrical maintenance personnel shall be able to carry out troubleshooting on multi-gear drawworks control software and HMI more effectively but without in-depth knowledge about the software functionality. This course covers theoretical classroom, practical TTL and simulator troubleshooting training.

After this course the participant shall be able to use failure & help messages, technical drawings and documentation for failure analysis in order to provide our 24/7 technical support hotline the required information in a professional manner. Furthermore the participant shall be able to monitor interface signals of control systems via ServiceLab/HMI. This course module is based on monitoring software ServiceLab 9. The training content for ServiceLab 9 is limited on monitoring of determined software interfaces but not the handling of the complete software.

Training content

- Safety instructions
- Functionality of control systems
- Introduction of control software structure
- Handling of failure messages and help texts
- Handling of Cause and effect list
- Electrical schemes and bus topology
- Electrical devices and their functionality
- Introduction of data blocks which are available for signal monitoring via ServiceLab 9
- Handling of ServiceLab 9 for signal monitoring
- Practical troubleshooting and failure analysis on simulator
- Practical work on control system cabinets

Duration

2 days

Course capacity

Min. 4 participants
Max. 6 participants

Target group

Electrical maintenance personnel

Language

Training execution and digital training material will be provided in English language.

Prerequisites

- Basic knowledge about drilling technology
- General technical and physical understanding
- Basic hydraulic knowledge is recommended
- Electrical knowledge and ability to read electrical schemes and bus topology drawings is required
- Experience in troubleshooting and signal monitoring using data interfaces.
- Participation on Multi-gear Drawworks Training or comparable field experience with drawworks

