

System 3 PCS Single Streamer

Overview

OVERVIEW

The System 3 PCS Operator Single Streamer course will teach you how to operate the System 3 Positioning Control System on a day to day basis, and provide you the basics on troubleshooting and upgrade procedures. The course provides an overview of the full system through a hands-on approach utilizing custom simulators and real hardware providing practical and real-life experience in system operation..

DURATION

This three day course is provided in Stafford, Texas. (08:30 – 16:30) This course may also be provided in Edinburgh, Scotland or Cranleigh, England at additional costs. The course may be provided at client premises provided suitable facilities and equipment are made available.

WHO SHOULD ATTEND

The course is designed for Observers that are new to the seismic industry, with little or no prior positioning equipment experience, or others currently working in the seismic industry wishing to gain a better understanding of the day to day maintenance and operation of the System 3 PCS system.

OBJECTIVES

The course will provide the skills and knowledge necessary to operate and maintain the System 3 PCS during day to day operations in a single streamer configuration.

PREREQUISITES

It is expected that the delegates have some basic knowledge of streamer components and marine seismic operations. No prior knowledge of the System 3 PCS is required. A basic knowledge of Microsoft Windows is required and allows the class to focus on System 3.

TEACHING METHODS

The course is a mixture of lecture and practical application sessions. Hands-on experience and practice time allocations will be based upon units available and class size.

UPON COMPLETION OF THE COURSE, DELEGATES WILL BE ABLE TO

- Identify the components of the System 3 PCS
- Clearly identify communication protocols between the wet end and dry end components
- Create, edit, and compile a streamer configuration using System 3 Setup
- Synchronizing System 3 with Spectra/Orca
- Open and use the System 3 Operator Interface
- Monitor system functions using the Operator Interface

- Deploy and Retrieve in-water sensors using the System 3 Operator Interface
- Perform pre and post operational maintenance on the System 3 wet end components
- Identify and troubleshoot the System 3 PCS DMU and LIU
- Remove and replace system boards on the System 3 PCS DMU and LIU
- Configure and use Serial Port communications with the System 3 PCS
- Load and update application image software on the System 3 PCS DMU and LIU

COURSE CONTENT

DigiCOURSE System 3 PCS Overview

- Data Management Unit
- Line Interface Unit
- Wet-end components
 - DigiBIRD
 - DigiRANGE Acoustics
 - DigiFIN Lateral Controller
 - Velocimeter
 - Speedlog
- Frequency Shift Key communications

DigiCOURSE System 3 Software

- Which version is right for you?
- Installing / Uninstalling System 3 Software

DigiCOURSE System 3 Setup

- Setting global parameters
- Defining streamers and cables
- Adding in water units
- Verifying cycle estimates and dead time
- Synchronizing System 3 Setup with Spectra/Orca
- Transferring configuration to the DMU

DigiCOURSE System 3 Operator Interface

- Connecting to the DMU
- Operator Interface displays
- Status bar functionality
- In water unit diagnostic functions

- Sensor deployment

DigiCOURSE Wet End Maintenance and Operation

- DigiBIRD unit pre- and post-operational checks
- Changing batteries

DigiCOURSE System 3 PCS Troubleshooting

- Dry-end component troubleshooting
- Wet-end component troubleshooting
- FSK communications troubleshooting

Serial Port Communications

- Serial port communication settings
- HyperTerminal and Null Modem cables
- vxWorks commands
- Network settings and configuration

Application Image and Firmware Upgrading

- Connecting to the DMU/LIU
- Transferring bin files
- Loading bin files
- Transferring configurations files by FTP

Course Review of Essential Elements