

# System 3 PCS Operator Course

## Overview

### OVERVIEW

The System 3 PCS Operator course will teach you how to operate the System 3 Positioning Control System on a day to day basis. 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 four 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.

### 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
- Identify version constraints with regard to the System 3 software
- Clearly identify communication protocols between the wet end and dry end components
- Create, edit, and compile a streamer configuration using System 3
- Setup and transfer it to the PCS Data Management Unit
- Synchronizing System 3 with Spectra/Orca
- Synchronizing System 3 with the Lateral Controller software
- Open the System 3 Operator Interface
- Monitor system functions using the Operator Interface

- Deploy and Retrieve in-water sensors using the System 3 Operator Interface
- Deploy and Retrieve in-water sensors using the System 3 Handheld
- Perform pre and post operational maintenance on the System 3 wet end components
- Perform Acoustic and Bird logging with the System 3 OI

## **COURSE CONTENT**

### **System 3 PCS Overview**

- Data Management Unit
- Line Interface Unit
- Wet-end components
- Frequency Shift Key communications

### **System 3 Setup**

- Setting global parameters
- Defining streamers and cables
- Adding acoustic and bird units
- Adding Velocimeter and Speedlog
- Creating and compiling one-way and two-way ranges
- Verifying cycle estimates and dead time
- Transferring configuration to the DMU
- Adding DigiFIN Lateral Controllers

### **System 3 Operator Interface**

- Connecting to the DMU
- Operator Interface displays
- Status bar functionality
- Bird and acoustic diagnostic functions
- Sensor deployment

### **Wet End Maintenance and Operation**

- Acoustic and bird unit pre- and post-operational checks
- Changing batteries
- Battery handling considerations

### **System 3 Handheld**

- Configuring the Handheld for use
- Using System 3 Handheld UnitCHECK
- Using System 3 Handheld Deploy

### **Course Review of Essential Elements**