

Nautical Institute Basic DP Operator Course

Scope

This course will familiarize participants with Dynamic Positioning Systems. The course will cover the functionalities of a DP system including:

- DP Control Station
- Power generation and Management
- Propulsion Units
- Position Reference Systems
- Heading Reference Systems
- Environmental Reference Systems
- DP Operations
- Practical Operation of a DP System
- External Forces Reference System

There will be twelve lecture modules:

- Introduction
- Principles and Elements of DP
- DP Modes and Settings
- Alarms and Message System
- Sensors and Ancillary Equipment
- Position Reference Systems
- Coordinate Systems
- Thrusters, Power Generation and Management
- DP Operations
- Risk Assessment and Operation Planning
- FMEA,
- Guidelines and Recommendations

Lectures will be fortified with practical exercises using stand alone DP simulators. At the start of this course the Nautical Institute DP Operator's training scheme will be outlined including maintaining of the logbook and the procedure for obtaining the certificate

Objective

At the end of the course the student should have acquired knowledge of the principles of Dynamic Positioning, be able to set up a dynamic positioning system and have an understanding of the practical operation of associated equipment, including position reference systems. He/she should be able to recognize and respond to the various alarms, warning and information messages. He/she should also be able to relate the DP installation to the ship system, e.g. power supply, maneuvering facility, available position reference systems and nature of work. He/she should also be able to relate DP operations to the existing environmental conditions of wind, sea state, current and vessel movement.

Entry Standards

Validation of STCW Certificate of Competency. This course is designed for Deck officers as the first step in the Nautical Institute's training scheme towards DP certification. It is a requirement that Training Centers ask for and check the validity of Certificate of Competency of their students before accepting them into the DP basic course and DP scheme. Training Centers are required to check if students are in possession of a Certificate of Competency before accepting them into the DP basic course and DP scheme. An out of date Certificate of Competency (CoC) does not stop students commencing the DP scheme. However, the training centers should provide full guidance to these students as they may find difficulties in obtaining the sea service required by the scheme if they hold an invalid CoC.

Teaching Facility

STAR Center, Dania Beach, Florida