

# Dynamic Positioning and Power Management awareness training

## Lloyd's Register Energy - Drilling Training Academy



The need for specialized Dynamic Positioning (DP) and Power Management (PM) training has grown exponentially with the increase in deepwater activity and the influx of new and refurbished drill rigs and ships.

Lloyd's Register's clients have expressed concern for the lack of DP/PM experience due to the high demand to fill offshore drilling positions in recent years. It is common to find that only 20% of these positions have more than 2-3 years experience with drilling activities. In addition, even the most experienced crew joining the rig may not be familiar with the systems used on a particular rig.

Lloyd's Register Energy – Drilling's Systems and Controls (S&C) team has created DP training programs to meet the needs of all personnel involved in deepwater drilling. The training will help bridge the knowledge gap often found between support teams, rig management and system operators.

We have created a three-prong approach consisting of a basic, management and operator model to cater to each audience. We deliver not only the basic philosophy of dynamic positioning, but a comprehensive understanding of all key DP/PM system components, ensuring optimum drilling efficiency and safety.

### Three-prong approach

#### Introduction - Basic DP/PM model

- provides an overview of the DP/PM system and its importance to the outcome of the overall drilling operation
- audience includes shore and rig-based personnel directly or indirectly involved with DP/PM daily operations

#### Intermediate - Management personnel DP/PM model

- offers a complete understanding of the critical aspects of the DP/PM systems
- information surrounding DP incidents will be discussed and information pertaining to lessons learned on other rigs will be addressed

- DP Class requirements will be discussed with a focus on maintaining all regulatory requirements and guidelines set by Class and IMCA
- audience includes drilling supervisors, drilling engineers, drilling managers, rig managers, drillers, toolpushers, maintenance supervisors, assistant mechanics personnel and government inspectors



Lloyd's Register  
Energy

Working together  
for a safer world

### Advanced - Operator model

- training will provide a comprehensive review of the entire DP/PM architecture of the rig, highlighting each component of the system
- documentation, checklists and methods of incident investigation and reporting are discussed in depth
- the assessor includes a breakdown of the types of events and methods used to ensure that the root cause is identified, all incidents are resolved and when possible mitigating actions are demonstrated to avoid a reoccurrence
- audience includes senior and junior dynamic positioning operators, marine officers, chartered engineers, subsea engineers, captains and senior electric personnel.

### Meeting industry needs

Lloyd's Register Energy – Drilling offers flexible options for training locations that are customizable to fit your specific job needs.

Additionally, clients can utilize this training during new build and renovation projects at the shipyard to minimize downtime prior to the rig commencing drilling operations.

### Systems and controls

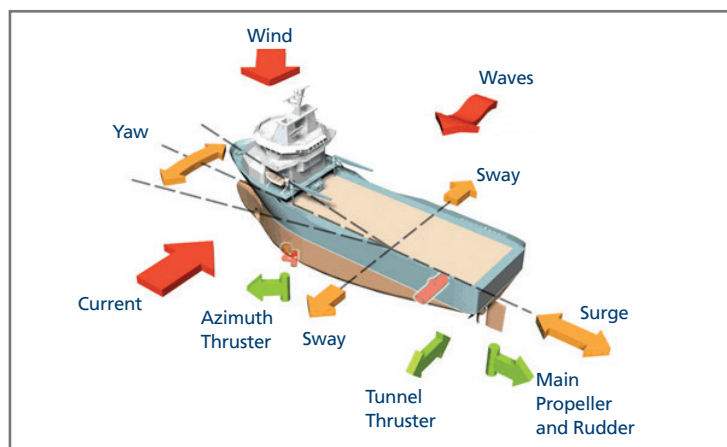
DP/PM training places a special emphasis on the interfaces between the DP, BOP control systems and related auxiliary systems across the entire envelope of operations.

Failures with equipment controls and integrated control systems have been a significant cause of downtime. It is vital that each of these control systems work reliably by themselves and with other control systems.

## Why Lloyd's Register Energy?

Lloyd's Register Energy is a world-leading independent risk management organization working to improve our clients' quality, safety, environmental and business performance. In choosing Lloyd's Register Energy, you are assured of a service which provides:

- practical experience and expertise in all aspects of the strategic and operational management of safety, reliability, business and project risk
- access to multi-disciplinary teams with competence across all aspects of design, construction, risk management, monitoring and inspection
- drawing on our experience, we can tailor and combine our services to provide a cost-effective solution which is focused on your concerns and can enhance your project



### Related Services

- Asset integrity and maintenance management
- Rig inspections
- Sensor applications on tension risers
- Systems and controls
- Training

To find out more about how we can help you, please visit:  
[www.lredacademy.org](http://www.lredacademy.org)

ModuSpec and WEST Engineering Services are now Lloyd's Register Energy – Drilling

[www.lredacademy.org](http://www.lredacademy.org)

January 2014

Lloyd's Register and variants of it are trading names of Lloyd's Register Group Limited, its subsidiaries and affiliates. Copyright © Lloyd's Register Group Services Limited. [2014] A member of the Lloyd's Register group.