

# OSBORNE TRAINING SERVICES

Part of the OEL Group of Companies



Technical and Management Training Solutions



# Introduction

Osborne Engineering Limited has been facilitating successful training programmes for over twenty years and are fully committed to delivering quality training. Our dedicated training division, Osborne Training Services (OTS) is able to draw from a wide range of instructional expertise to supply high quality theoretical and practical training.

All OTS Courses can be modified to suit individual customer requirements. OTS can offer a complete training service firstly communicating with the customer to establish their needs and then develop and deliver the course in partnership with customer requirements. OTS believe in a continuous improvement process for all of our courses. Students can evaluate their course on completion and offer us feedback in all areas. We use this information to ensure that our standards of instruction, equipment and presentation are always ahead of the competition. All our courses are backed up with high quality training manuals and materials.

Our instructional capability includes experts in the fields of Gas Turbine Engineering, Machine Tribology/ Failure Analysis, Rotating Equipment, Vibration, Alignment, Control and Instrumentation, Electrical Systems, Management Training and Health and Safety. All of our highly qualified instructors have considerable practical experience in the field in which they teach.



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# Technical Training Solutions

OTS have dedicated facilities in Newcastle, Poland, Dubai, Abu Dhabi and Houston, Texas. Our training programmes have been developed to include a high degree of practical training, and therefore these centres have been equipped with a wide variety of practical equipment to facilitate our core training in:

- Power Generation
- Mechanical
- Instrumentation and Controls
- Electrical
- Management
- Health and Safety

Our Dubai facility also benefits from close proximity to a major turbine refurbishment workshop to allow further hands on training and to allow students to gain more practical experience in Gas Turbine Maintenance and repair.

Due to the locations of our training centres and our transportable training equipment we are able to offer high quality training services to the UK, Europe, Asia, Africa and the Middle East. We also have the ability to conduct our courses at the customers own facilities should this be more convenient.



## Open Registration

Osborne Training Services provide Open Registration courses to allow customers to register individual or small groups of students on one of our training programmes. These courses are conducted at our Training Centres in Dubai and the UK and are designed specifically to meet the requirements of the Power generation, Oil, Petrochemical and other industries in today's market place.

During these Open Registration courses delegates are actively encouraged to interact with each other and encouraged to discuss individual circumstances, allowing the tutor to meet not only the needs of the group as a whole but to address individual requirements. For this reason we limit the number of attendees on each training course.

## Bespoke Programme Courses

Through our substantial experience in the development and delivery of training courses Osborne Training Services has the necessary skill and expertise to design and deliver a wide variety of technical courses on a huge range of equipment and systems. We therefore offer a service to our customers to provide a training course on most technical subjects or systems. This means that OTS, using their vast course design experience, can develop a programme to suit a particular system, machine or application and provide the customer with the ownership of any training material produced.



# Power Generation Courses

OTS conduct a wide variety of Power Plant Operations and Maintenance courses. Our training centres are equipped with a wide variety of Gas Turbine Components such that students can discuss the maintenance requirements of each part and appropriate inspection techniques.

To provide targeted operator courses, we use a range of simulators, including Speedtronic Control System Simulators. The use of simulators provides an ideal environment for operators to use interactive systems so that they can familiarize themselves with standard Plant Operations.

- Boiler Water Analysis
- Combined Cycle Gas Turbine Performance
- Combined Cycle Power Plant
- Gas Turbine Mechanical Maintenance
- Gas Turbine Operations (Generic)
- Gas Turbine Operations Management
- Gas Turbine Operations with MK V Speedtronic Control System
- Gas Turbine Operations with MK VI Speedtronic Control System
- Gas Turbine Technology



# Mechanical Training Courses

Mechanical Training course provision can be divided into two separate categories. The first category is Mechanical Equipment Maintenance and in this area OTS can offer a variety of Pump and Compressor courses. Both our centres provide practical equipment for facilitating this type of training, including Pump/Motor skids and Compressors.

The second category of mechanical courses are those in specialised areas of mechanical maintenance and engineering. OTS can offer Alignment training and teach a variety of alignment techniques including Laser Alignment (Prüftechnik Optalign Plus). Further we provide vibration analysis courses that include vibration measurement, diagnosis techniques and the principles of balancing rotating shafts.

Another specialised area is that of Tribology and in this subject we can provide a variety of individual training programmes including Bearings and Bearing Failure Analysis, Mechanical Seals and Gears.

- Advanced Reliability Centered Maintenance
- Bearings & Bearing Failure Analysis
- Centrifugal and Reciprocating Compressors
- Machinery Failure Analysis
- Mechanical Seals Maintenance
- Pump Operations and Maintenance
- Reverse and Laser Alignment
- Tribology/fault finding analysis of machines
- Vibration Analysis and Predictive Maintenance
- Vibration
- Valves Measurement and Analysis



# Instrumentation & Control Courses

Our Instrumentation and Control Courses cover a wide portfolio of available subject matters. A particular area of expertise is Programmable Logic Controllers (PLCs) and to facilitate training in this subject, OTS have invested in a range of PLC modules (Allen Bradley) that can be used to provide training on the latest programming techniques and interface types (SCADA systems).

We also can provide training on a variety of the latest Field Instrumentation including pressure, temperature, flow and level measurement instruments. Calibration and Maintenance techniques can also be taught in our fully equipped instrumentation labs.

- Condition Monitoring and Vibration
- Control of Machines and Plant
- Distributed Control Systems
- Industrial Instrumentation Control (PLC)
- Industrial Process Instrumentation
- Instrumentation for Operators
- Smart Transmitters and Single Loop Controllers
- Types of Control



# Electrical Training Courses

The generation and distribution of electricity is fundamental to everyday life throughout the world.

OTS has developed a range of Electrical Training Courses covering the subjects as detailed herein. Most of the practical training in this area is conducted using simulators.

- Advanced High Voltage Electrical Protection
- Advanced Low Voltage Electrical Troubleshooting for Technicians
- Electrical Equipment Troubleshooting and Maintenance
- Fault Finding on Electrical Power Systems
- Basic Electricity
- Earthing & Bonding
- Generation and Excitation Systems
- UPS & Battery Chargers
- UPS System & Power Conditioners



# Management Training

OTS believe that strong supervisory and management skills are essential for the progression of individuals within an organization and properly trained staff can add valuable growth potential for the organization itself.

The programmes that we offer herein provide a range of skills development that can equip supervisors and managers at all levels with the necessary expertise in a variety of management processes and efficient maintenance management techniques.

- Advanced Negotiation
- Business and Technical Report Writing
- Effective Leadership Techniques
- Effective Supervisory Skills
- Gas Turbine Maintenance Management
- Maintenance Management and Planning
- Maintenance Planning and Scheduling
- Management Planning and Scheduling
- Outages Using Microsoft Project
- Project Management including use of Microsoft Project
- Project Planning, Reporting, Monitoring and Control
- Root Cause Failure Analysis
- Strategic Leadership and Management
- Train the Trainer



# Health & Safety Training Courses

Our unique quality assured health and safety programmes together with our expertise will assist organizations in gaining nationally recognized qualification, such as IOSH. In addition, individuals will gain an understanding of how to apply the knowledge gained in their own work environment.

## **Accredited Health and Safety Training**

- IOSH Working Safely
- IOSH Safety for Senior Executives
- IOSH Managing Safely
- IOSH Managing Environmental

## **Bespoke Health and Safety Training**

- Accident Investigation
- Asbestos Awareness
- COSHH Assessment
- Fire Risk Assessment
- General Risk Assessment
- Legionella Management
- Manual Handling Assessment
- Manual Handling
- Train the Trainer
- Permit to Work
- Stress Awareness
- Working at Height



# Our Clients

We deliver training to a wide variety of industry leading companies and organization. They include:

- Merck, Sharp and Dohme
- Heineken
- Husqvarna
- Exxon Mobil
- Apache
- Hyundai
- Alstom Power
- Centrica
- Mitsubishi
- SITA
- University of Sunderland
- Greenstream PV
- Mellitah Oil and Gas
- ADNOC Group
- Saudi Electric Company
- SONGAS
- Bord Gais Energy
- GE PII Pipeline Solutions
- GGI
- BAPCO
- PACIFIC ENERGY





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