

Training Facilities



Our global headquarters in Peterhead Scotland has extensive training facilities including a conference room that can accommodate up to 300 delegates and a smaller training room that can accommodate up to 25 delegates. Both these facilities are fully equipped with the latest in audio and visual technology.

Courses are presenter led and include multimedia presentations where each delegate is issued with comprehensive course material. However where appropriate our instructors can travel to your location and deliver the courses onsite if suitable facilities are available. Alternatively we can deliver student centred learning through the internet using our VITAL e-learning system. VITAL courses can be delivered anywhere in the world and allow learners to study at their own pace.

Training Team



Our team of experienced trainers have decades of gas turbine experience to draw upon. Their varied backgrounds include significant experience of working for OEMs, military and oil and gas industry.

- **Derek Squib** –
A former OEM trainer with over 35 years working with gas turbines. He has held senior mechanical and training positions within a major UK OEM.
- **Robert Gritton** –
A highly experienced gas turbine engineer with extensive experience of aircraft and industrial gas turbines. The wide range of gas turbines he has worked with over his career gives 'Bobby' a broad array of experiences to draw upon when delivering training.
- **Andy McClare** –
A highly experienced former field service engineer with a background in both military and civil gas turbine. Andy has developed a reputation as a practical problem solver in the field.

For more information please contact:

Score **Energy Limited**

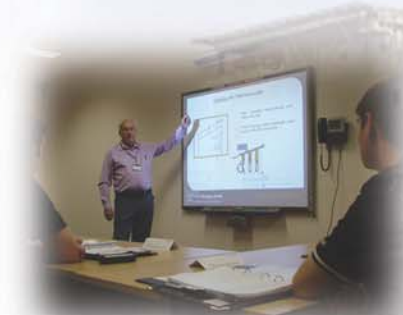
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Introduction

Aeroderivative gas turbines are being widely used for power generation and mechanical drive in a wide range of industries. Their unmatched power to weight ratio make them the power plant of choice for offshore applications. In many of the high value processes where gas turbines are used, the economic consequences of downtime or lost efficiency can be very significant. Specialised training of appropriate operations and maintenance personnel is vital in ensuring these sophisticated machines operate at optimum reliability and efficiency.

Score Energy Limited has developed a range of gas turbine training courses which are designed to give plant maintenance and operations personnel the required information. These courses include engine specific familiarisation and maintenance, integrated in both practical and theoretical sessions.

All courses are customised in content and duration to suit each client's particular needs.



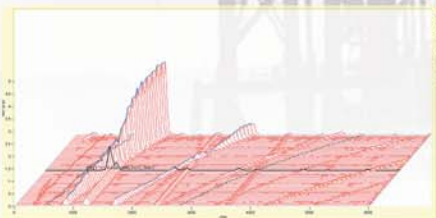
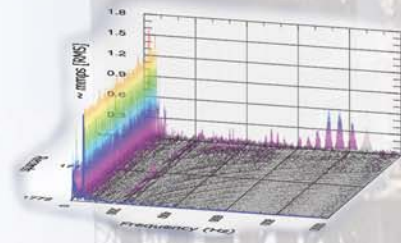
Olympus Operations & Maintenance

The Olympus engine originally designed by Bristol Siddley, was one of the first gas turbines to utilise a twin spool arrangement. This arrangement allowed the Olympus to develop an acceptable pressure ratio without requiring the use of blow off valves (BOVS) or variable inlet guide vanes (VIGVS). The Olympus has been widely adopted in the power generation industry for use as a peak 'lopping' generator. It has also found extensive utility in the oil and gas industry as a prime mover. Course content includes:-

- **Basic Working Principles & Familiarisation**
- **Detailed Component Description**
- **Operating Procedures**
- **Ancillary Equipment**
- **Maintenance Requirements**
- **Condition Monitoring**



Gas Turbine Condition Monitoring



Condition monitoring forms a cornerstone of the modern predictive maintenance method which is now widely accepted as best practice throughout the industry. Our condition monitoring course is designed to give operations and maintenance engineers the necessary background to ensure successful implementation of a condition monitoring strategy. Specific focus is given on the techniques and methodologies most suitable for aeroderivative gas turbines. Material available includes:-

- **Predictive Maintenance**
- **Vibration Theory**
- **Vibration Measurement**
- **Spectrum Analysis**
- **Performance Monitoring**
- **Oil Monitoring**

Avon Operations & Maintenance

The Rolls Royce Avon is one of the most widely adopted of the aeroderivative gas turbines. This rugged workhorse is a single spool gas generator with a 17 stage axial compressor and 3 stage turbine. The longevity of the design means that a great deal of operating experience has been accrued. The Avon courses give operations and maintenance engineers an opportunity to acquire some of this knowledge. Course content includes:-

- **Basic Working Principles & Familiarisation**
- **Detailed Component Description**
- **Operating Procedures**
- **Ancillary Equipment**
- **Maintenance Requirements**
- **Condition Monitoring**



RB-211 Operations & Maintenance

The Rolls Royce RB-211 is a modern aeroderivative gas generator derived from the highly successful aero engine. It was one of the first engine designs to be fully modular allowing for individual engine sections to be changed in the field. The RB-211 operations and maintenance courses are intended to ensure this sophisticated machine can be operated at its highest possible efficiency. Course content includes:-

- **Basic Working Principles & Familiarisation**
- **Detailed Component Description**
- **Operating Procedures**
- **Ancillary Equipment**
- **Maintenance Requirements**
- **Condition Monitoring**

