A thorough understanding of the key life-limiting issues relating to gas turbine asset management is paramount in ensuring the optimum day-to-day operation of gas turbine plants supporting on-going interactions with OEMs; as well as repair and maintenance companies, insurers and other regulatory bodies. This two-and-a-half day course employs extensive case studies to demonstrate the technical considerations behind component durability and degradation, the scope and implications of repair, techniques for assessment and their impact on life extension.

### Your programme

#### Day one
- **08.45** Registration and refreshments
- **08.45** Introduction to hot section life management issues
  - Considerations and constraints
  - Options.
- **12.30** Lunch
- **09:00** Design for durability
  - Basic design considerations for selected hot section parts
  - Design lives for blades and discs.
- **17.00** Close.

#### Day two
- **08.45** Registration and refreshments
- **09:00** Hot section condition assessment
  - Motivation and general considerations
  - Techniques for assessing component condition
  - Experience and ‘simple’ inspection
  - Qualitative metallographic techniques
  - Quantitative metallographic techniques.
- **12.00** Lunch
- **09:00** Hot section condition assessment (conclusion)
  - Case studies.
- **12.45** Lunch
- **13.45** Close.

#### Repair and refurbishment
- **Day two (continued)**
  - Technical quality assurance
  - Alternative sourcing and re-manufacture.
- **Day three (optional)**
  - **08.45** Compressor durability
    - Materials of construction
    - Coatings
    - Effect of operating environment
    - Filtration.
  - **12.45** Lunch
- **13.45** Close.

#### Materials and components
- **(continued)**
  - Other components (combustors, discs, compressors)
  - Trends for the newer designs of machines.

#### Degradation and life limitations: The reasons behind maintenance
- **(continued)**
  - Influencing factors
  - Environmental attack
  - Mechanical degradation
  - Microstructural changes and their significance
  - Design related ‘damage’.

#### Applications and implications
- **(continued)**
  - Implementation issues.

### Additional Information
- **Phone**: +44 (0)1372 367319
- **Email**: events@edifera.com
- **Website**: http://shop.era.co.uk

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**Gas Turbine Hot and Cold Section Assessment and Life Management**

1-3 December 2015 (Leatherhead)
Your Speaker

Mike Wood - Gas Turbine Consultant, Edif ERA

Mike Wood has been working for Edif ERA for over 25 years. Since he has been there he has been actively involved in a wide range of investigations concerning gas turbine integrity, repair, life extension and associated operational problems and failure investigations. He has worked on a very wide range of sizes, ages and makes of industrial and power generation gas turbines. Mike has also initiated and lead programmes to develop improved techniques to assess the serviceability of service run hot section components. These projects have been supported by both operators and original equipment manufacturers from around the world.

Booking Form

Please photocopy this form if you wish to register more than one delegate. Send a second person at a discounted price!

Delegate details

Name Dr Mr Mrs Miss
Job title
Organisation
Address
Postcode
Telephone
Fax
E-mail
VAT Number (EU-customers only)

Fees*

Fee rate    Fee    VAT@20%†    Total    Please Tick
Early booking rate    £184.50    £162.90    £347.40
Standard rate    £905.00    £818.00    £1,626.00

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I wish to make a firm booking for:

Gas Turbine Hot and Cold Section Assessment and Life Management

- 3 December 2015 (Leatherhead)

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†The Events Team, Edif ERA, Cleeve Road, Leatherhead, Surrey KT22 7SA.

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Venue:

Your course will take place at the Edif ERA Training Centre, Cleeve Road, Leatherhead, KT22 7SA, UK. It is a 15-minute walk from Leatherhead main-line station. Visitor car parking is available on-site. A location map is available at: http://www.edifgroup.com/contact/edif-era-uk-surrey-head-office.

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Early booking rates are valid up to one calendar month before the date of the course and can only be claimed at the time of booking.

Additional booking rates:

Additional booking rates are applicable to second and subsequent delegates and may only be claimed at the time of booking.

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