

17 June 2014 (Leatherhead), 9 September 2014 (Leatherhead)

NEW

To ensure smooth operation and healthy productivity, it is essential that organisations carry out accurate through-life assessments of their assets. This introductory course offers an overview of the key sections of API 579-1/ASME FFS-1:2007, an internationally-recognised standard which provides technically sound consensus methods for the reliable assessment of the structural integrity of equipment containing identified flaws or damage. Attendees will gain a valuable insight into the different methodologies and grades of assessments related to specific damage mechanisms generally found in aging assets. Real-world case studies demonstrate the application of these assessments. Delegates will also have the opportunity to work through Level I assessment exercises putting into practice lessons learnt during the sessions.

Your Programme

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| <p>08.45 Registration and refreshments</p> <p>09.00 Introduction to Fitness for Service</p> <ul style="list-style-type: none">• Purpose and when it is required• Roles and responsibilities• Damage mechanisms• Assessment levels. <p>09.45 Corrosion and metal loss</p> <ul style="list-style-type: none">• General metal loss• Thickness measurements• General metal loss case study• Local metal loss• Local metal loss case study• Pitting corrosion. <p>Level I local metal loss assessment workshop</p> <p>11.00 Refreshments</p> <p>11.15 Hydrogen damage and laminations</p> <ul style="list-style-type: none">• Damage phenomenon• Inspection techniques• Assessment methodology• Case study. <p>Level I assessment exercise</p> <p>12:15 Dents and gouges</p> <ul style="list-style-type: none">• Dents, gouges and dent-gouge combinations• Assessment methodology. <p>12.45 Lunch</p> | <p>13.15 Metallurgical laboratories tour</p> <ul style="list-style-type: none">• Example failures• Evaluation of damage mechanisms. <p>14.00 Crack-like flaws</p> <ul style="list-style-type: none">• Typical flaws• Required data• Flaw characterisation• Assessment methodology• Failure assessment diagram• Case study. <p>Level I exercise</p> <p>15.30 Refreshments</p> <p>15.45 Creep damage</p> <ul style="list-style-type: none">• Creep phenomenon and case study• Damage classification• Inspection techniques• Assessment methodology. <p>Level I assessment demonstration</p> <p>17.15 Fire damage</p> <ul style="list-style-type: none">• Mechanical damage caused by fire• Fire damage evidence• Thermal effects on materials• Assessment methodology. <p>17:30 Close</p> |
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Related Course**Understanding Failure Analysis Investigation**

7 October 2014

To place a booking, please contact the Events Team on 01372 367319
or via e-mail to events@era.co.uk

Ever thought about in-company training?

ERA can deliver this course at your site either in standard public format or as a bespoke option tailored to your organisation's individual specifications. To discuss your training requirements, please call the Events Team on +44 (0)1372 367319.



Your Speakers



Alan Chung - Principal Mechanical Engineer, ERA Technology

Alan Chung has a Master's degree in Advanced Mechanical Engineering. He is very experienced in conducting structural integrity assessments, in particular using the finite element method and fracture mechanics techniques including the R6 and R5 British Energy defect assessment procedures. Over the course of his career, he has employed his expertise in a wide range of industries including nuclear, defence and railways.



Duncan Humphrey - Principal Mechanical Engineer, ERA Technology

Duncan has over 15 years' experience working on condition assessment, failure analysis and remaining life evaluation principally for the power, refining and petrochemical industries. Since joining ERA as a mechanical engineer in 1998, he has undertaken many calculational analyses including fitness for service, assessment of static and rotating components and forensic engineering assessments as part of litigation cases.

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)

Bookings

I wish to make a firm booking for:

An introduction to Fitness for Service

☐ 17 June 2014

☐ 9 September 2014

Fees*

Fee rate	Fee	VAT@20%†	Total	Please Tick
Early booking rate	£432.00	£86.40	£518.40	
Standard rate	£480.00	£96.00	£576.00	

*AccessERA subscribers and additional delegates receive a 30% discount on these rates. If you subscribe to AccessERA and would like to use your AccessERA credits to attend, please contact the Events Team on: +44 (0)1372 367319. For more information on booking rates, please go to: <http://shop.era.co.uk>.

†VAT only applicable to companies based in the UK.

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Venue:

Your course will take place at ERA Technology Ltd Training Centre, Cleeve Road, Leatherhead, Surrey, KT22 7SA, UK. It is a 15-minute walk from Leatherhead main-line station. Visitor car parking is available on-site. A location map and directions are available at: <http://www.era.co.uk/find-us/>.

Early booking rates:

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.

Did you know?

An AccessERA subscription is an excellent way of accessing technical advice and information in the right format at the right time. All AccessERA subscribers receive a 10% discount on the current course price at the time of booking when the booking is made directly with the Events Team. To find out more, please call us on: +44 (0)1372 367319 or e-mail: events@era.co.uk.

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The Events Team, ERA Technology Ltd, Cleeve Road, Leatherhead, Surrey KT22 7SA.

* Please note that booking forms received without payment will be considered binding and invoiced automatically.

Enquiries:

Please contact the Events Team by calling: +44 (0)1372 367319 or e-mail: events@era.co.uk.

How to pay:

Payment must be made before attendance at the event and must be made in £ sterling only. Acceptable methods of payment are by cheque (payable to ERA Technology Ltd), credit card or bank transfer. Bank transfers, free of all charges, can be made to ERA Technology Ltd via: HSBC, 9 The Boulevard, Crawley, RH10 1UT; sort code: 40-18-22, account no. 22178095. When paying by bank transfer, please quote the relevant course, course date and the delegate and company name.

Cancellations and transfers:

Cancellations and transfers must be received in writing to the following address: The Events Team, ERA Technology Ltd, Cleeve Road, Leatherhead, KT22 7SA. Cancellations and transfers received up to the 15th working day prior to the event will be subject to a charge of 20% of the invoiced course fee + VAT or 20% of the AccessERA credits charged. After this 15-day deadline, transfers cannot be accepted and cancellations will be subject to payment in full or 100% of the AccessERA credits charged. Delegate substitutions can be made at any time.

ERA Technology Ltd:

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