

This 3-day course is designed to provide a technical overview and to introduce delegates to the many facets of the Aviation Jet Fuel business – a business which operates at a truly global level. It will not only examine the workings of the modern jet engine, but will build the picture as to why, unlike some fuels, jet fuel specification, production and handling is critical to the continuing success of the aviation industry. It explores components of the business from several key perspectives, including oil company fuel suppliers and civilian and military users.

Day one

• The jet engine

Starting with the basics of how a jet engine works and examining why fuel parameters are critical.

• Production of fuel

Looking at all aspects of production of fuel, the refining processes used, and examining the current and possible future sources of jet fuel.

• Contaminants

Description of contaminant types in jet fuel and their prevention and control

• Storage and distribution and quality assurance

The systems currently in use and problems encountered with respect to railcars, ships, and pipelines. What is tested and why. An examination of the importance of quality assurance from production to use.

Day two

• A visit to an airport storage facility

Demonstration of storage procedures with hands-on testing.

• Laboratory visit

Demonstration of laboratory testing requirements and difficulties.

• Microbiological contamination

Investigation of the problems that can occur and how to detect and avoid them.

Day three

• Specifications and Standards

Why specifications are required and how they are developed. Jet fuel procurement specifications and fuel handling standards will be explained.

• Additives

A look at what additives are permitted in jet fuel, their purpose and prevailing restrictions.

• Jet fuel and the environment

An explanation of the environmental affects of jet fuel and how this may shape jet fuel and air travel in the future.

• Filtration

Description of Energy Institute standards. Explanation of the fundamentals of filtration and filtration types.

• Electrostatics and Safety

Handling and operational procedures to minimise electrostatic discharges. General safety, including PPE explained.

Delegates will learn:

- The jet engine, its underlying principles and fuel requirements
- The critical characteristics of jet fuel, including additives
- Industry best practice adopted in the supply, handling and use of aviation fuel
- Real-life problems associated with the contamination of fuel and solutions to remedy them
- The practical side of operations at an airport storage depot and a laboratory
- The environmental impact and future of jet fuel



Registration form



UK Entry Visas – Please note that there have been recent changes to the UK Entry Visa application system. Given this, it now takes a minimum of 15 working days/3 weeks, to process any applications. If you wish to attend a course and need a visa, you are urged to apply at least 1 calendar month prior to the start date of the course. Full information at: www.ukvisas.gov.uk/en/howtoapply/wheretosapply/

To register, by post or fax, please complete this registration form in **BLOCK CAPITALS** and return it to the address below, together with payment of all fees. Nick Wilkinson, EI Oil and Gas Training, Energy Institute, 61 New Cavendish Street, London W1G 7AR, UK f: +44 (0)20 7255 1472 To register by email, please provide the same contact details (shown below), together with the relevant course details and send to: nwilkinson@energyinst.org To book online, visit: www.energyinst.org

I am/my employer is a member of the EI and entitled to the EI member's rate. EI Membership Number:
Mr/Mrs/Miss/Ms/Dr/Other:..... Name:
Job title or present position: Company/Organisation:
Name and address against which an invoice should be raised:
t: f:
e:
Mailing address for joining instructions (if different to invoice address above):
Please indicate if you have any particular dietary requirements:.....
I confirm that I have read and agree to the conditions of registration as specified in the General Information section.

Signature:..... Date:

Under UK Excise Regulations, delegates from all countries are required to pay VAT on any course taking place in the UK.

Course Title:.....
Course date: Cost of course: £
Less 10% discount for each subsequent delegate from the same company attending the same course on the same date
£.....

I enclose my remittance, made payable to the Energy Institute, for: TOTAL PAYMENT £inc VAT

The total amount may be paid by Sterling Cheque or Draft drawn on a bank in the UK.

To pay by Credit or Charge Card, circle appropriate card name and give card details below:

Visa MasterCard Euro Card Diners Club Amex

Card No: _____ Start Date __ / __ / __ Expiry Date __ / __ / __

Please enter your 3-digit* security code above. This will be deleted upon authorisation. *4-digits for Amex users.

Credit/Charge card holder's name and address:
.....

Signature:..... Date:

Payment: Full payment must be received before a place can be guaranteed. Under UK Excise Regulations, delegates from all countries are required to pay VAT on any event taking place in the UK. Please note that VAT may be liable to amendment. All prices are correct at the time of going to press, but may be subject to change without prior notice.

Acknowledgement of registration: Confirmation of registration and a VAT receipt will be sent to all delegates. Joining instructions will be sent out prior to the start date of the course. If you have not received your acknowledgement seven days prior to the start date of the course, please contact EI Oil and Gas Training at the Energy Institute to confirm your booking.

Language and course materials: All presentations, course materials and supporting documentation will be presented in English. **Audio-visual recording of presentations is strictly forbidden. Course materials cannot be purchased by non-attendees.**

Cancellation: In the event of a delegate cancelling, a refund of the registration fee less a 20% administration charge will be made provided that notice is received in writing at least 28 days before the date of the course. No refunds will be paid after that date. However, course papers, as supplied to attendees, will be provided after the event.

Substitution
If you are unable to attend, a substitute delegate may attend in your place, provided that EI Oil and Gas Training is notified in advance.

Enquiries
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e: nwilkinson@energyinst.org www.energyinst.org

DATA PROTECTION ACT

The EI will hold your personal data on its computer database. This information may be accessed, retrieved and used by the EI and its associates for normal administrative purposes. If you are based outside the European Economic Area (the 'EEA'), information about you may be transferred outside the EEA. The EI may also periodically send you information on membership, training courses, events, conferences and publications in which you may be interested. If you do not wish to receive such information, please tick this box

The EI would also like to share your personal information with carefully selected third parties in order to provide you with information on other events and benefits that may be of interest to you. Your data may be managed by a third party in the capacity of a list processor only and the data owner will at all times be the EI. If you are happy for your details to be used in this way, please tick this box

