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Montreal, Canada

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Aviation Fuel Auditing Training

Achieving Fuel Quality Excellence for Aircraft through
in-depth Understanding of the international
Standard Auditing Procedures



Featuring Industry Expert

Ravin Appadoo is a seasoned aviation professional with over 20 years of experience in the industry. As an Aviation Fuel Consultant, his work involves conducting research, feasibility studies, market analysis, training and audit work for airlines, airports, oil companies and such organizations as the International Air Transport Association, the United Nations and the International Civil Aviation Organization.

Testimonials

“Ravin is very knowledgeable in this field. He makes an effort to supplement the training materials with additional literature.”

Head, Engineering
Tiger Airways Singapore Pte Ltd

“The trainer, Ravin Apadoo has a deep understanding of the subject. This is a very detailed and informative course and it allows me to apply it at work.”

Engineer, Quality Assurance
Silkair Singapore Pte Ltd

Learning Checklist!

- Recognise the importance of fuel facilities inspection in compliance to safety and quality issues
- Provide an understanding on different fuel standards
- Understand how to perform gap analysis of existing facilities like fuel farms and fuel tanks
- In depth learning on fuel storage tanks inspection and cleaning
- Learn how to prevent fuel contamination (such as water) in aircraft systems and potential solutions
- Discuss the inspection procedures of the different fuelling equipment
- Examine Into - Plane Fuelling procedure according to IATA guidance standard
- Discuss on the latest version of Joint Inspection Group (JIG) guidelines and the standard available
- Obtain insights from real world case studies on fuel contamination

This Course Is Highly Recommended For

- Fuel Operational Manager
- Fuel Quality Managers
- Fuel Quality Technicians
- Airline Operators
- Airport Operators
- Safety Managers
- Fuel Suppliers
- Fuel Auditors
- Pilots

Audit Preparation and Reporting

- Define Audit scope
- Documents and records to be consulted
- Interviews with personnel
- Walk-through areas and access
- Findings
- Observations
- Corrective Action Plan

3-Day Course Agenda

DAY 1

Aviation Fuel: Product Characteristics

- Refinery Processes
- Properties and Specifications of Jet Fuel:
 - Bulk Properties: Volatility, Low Temperature and Combustion, Density, Heat Content, Viscosity
 - Trace Properties: Oxidative Stability, Compatibility with Materials, Particulate Content, etc.
- Non-Specification Properties
- Cleanliness
- Water Content
- Micro-organisms
- Color
- Lubricity
- Fatty Acid Methyl Ester (FAME)
- Material Safety Data Sheet
- Additives

Airport Fuel handling

- Fuel Receipt
- Fuel Storage
- Fuel Dispensing
- Fuel Filtration
- Fueling Equipment
- Fuel Dispensers
- Hoses
- Fuel spillage:
 - Prevention
 - Reporting fuel spills

Documentation and Records

Training and Certification

Fuel Safety Video

DAY 2

Quality Control

- Quality Control Throughout the Supply Chain
- Sampling and Testing
- Aviation Fuel Tests
- Certificate of Quality
- Traceability: Keeping Records
- Certificate of Quality

Fuel Handling Safety

- Aircraft Fueling:
 - Safety Awareness
 - Bonding and Grounding

Fuel Auditing

- IATA Fuel Quality Pool
- Importance of Fuel Audits
- Audit Procedures and Checklist
- Perform Gap analysis of existing facilities
- Findings and recommendations
- Audit closure
- Periodical Audit control: internal and external

Health, Safety and the Environment

Discussion topics:

- ICAO Manual on Civil Aviation Jet Fuel Supply - Issue 2012
- EI/JIG STANDARD 1530 Quality assurance requirements for the manufacture, storage and distribution of aviation fuels to airports
- Other topics include an update on FAME, fueling the B787 aircraft and Hydrant system cleaning.

DAY 3

Practical site visit

Health, Safety and the Environment

Final Evaluation Test

Award of Certificates