

Dangerous Goods Technical Course
Under the ICAO COSCAP Programmes

Specialized Training – Radioactive Materials
(Bangkok, Thailand, 21 January 2010)

OUTLINE

Note: The programme will commence at 0830 hours on Thursday, 21 January 2010 and will be a full day session.

Description: The Specialized Training on Radioactive Materials is designed to provide the participants with understanding on the classification, selection of packages, marking, labelling, documentation, handling and inspecting packages containing radioactive materials for air transport. This specialized knowledge is designed to enhance the competency of a State's Dangerous Goods Inspector as described in the requirements established in the Annex 18 of the ICAO Convention on International Civil Aviation.

Method of Instructions:

- Classroom lectures
- Exercises on the classification, selection of packaging, packaging, marking, labelling and documenting various shipments containing radioactive materials (Shipper's responsibilities)
- Exercises in the acceptance and handling of shipments containing radioactive materials (Operator's responsibilities)
- Confirmation exam

Pre-course requisites: Prior qualification on using the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air is recommended. Equivalent experience on the use of the IATA Dangerous Goods Regulations or the Air International Regulations for Shippers of Dangerous Goods is acceptable.

Content of the training:

- **Introduction**
 - Purpose of the Training
 - Objectives of the Training
 - Format of the Training
- **Applicable Regulations**
 - Historical Background
 - Related Organizations
 - The UN Model Regulations
 - Annex 18, the Technical Instructions and Supplement
 - Radioactive Material in Air Mail
 - National Regulations

- **Understanding Radiation**
 - What Is Radiation?
 - Types Of Ionizing Radiation
 - Natural Sources Of Ionizing Radiation
 - Artificial Sources Of Radiation
 - Biological Effects Of Radiation
 - How is Radiation Use?
 - **Classification**
 - Definitions
 - Low Specific Activity (LSA) Material
 - Surface Contaminated Object (SCO)
 - Special Forms and Other Forms
 - **Packaging**
 - General Packing Requirements
 - Activity levels
 - Type “A” Package
 - Type “B(U)” Package
 - Type “B(M)” Package
 - Type “C” Package
 - **Packaging (continue)**
 - Excepted packages
 - Industrial packages
 - Packages containing fissile material
 - Packages containing uranium hexafluoride
 - **Package Marking and Labelling**
 - Packaging Performance Testing
 - Hazard and Handling Labels for Packages Containing Radioactive Materials
 - **Documentation**
 - The Requirements for the Dangerous Goods Transport Document
 - Certificates
 - Other Documents
 - **Air Operator’s Responsibilities**
 - Acceptance Procedures
 - Storage and Loading Restriction
 - Provision of Information
 - Damaged Packages and Contaminated Cargo or Baggage
 - Emergency Procedures – Operator’s Responsibilities
 - Training
 - **Source of Additional Information**
 - International Organizations
 - National Agencies
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