



Syllabus — Course 401

**Length:** 2 days

**Target:** Persons responsible for, or involved in, the preparation of and actual shipping operation of dangerous goods packaging and transportation by air. This includes, but is not limited to, shippers, materials handlers, technicians (operators, health physicists, analysts, etc.), QA/QC personnel, safety engineers, front-line management, and shippers.

**Prerequisite:** RRI's DOT Hazardous Materials Transport Workshop (Courses 201) or equivalent.

**Intensity:**  Mild  Medium  Challenging  Extreme

**Materials:** RRI provides all training materials including the latest edition of the Air International Regulations (A.I.R.). Testing and course completion certificate are also provided.

**Course Objective**

Upon completion of this course, and given the reference materials, the participant will be able to prepare and inspect a compliant dangerous goods shipment using the applicable ICAO Dangerous Goods Regulations and U.S. DOT Hazardous Materials Regulations.

**Objectives & Topics**

**Module 1: Introduction**

1. Recognize the layout of the ICAO Dangerous Goods
2. Define "Dangerous Good."
3. Identify responsibilities placed on a shipper/handler/packager.
4. State the Federally mandated training requirements.

**Module 2: U.S. DOT Interface Regulation**

1. Recognize the limitations imposed by 49 CFR 171 Subpart C in establishing the role of the U.S. DOT Hazardous Materials Regulations when shipping under ICAO rules.
2. Apply the interface requirements addressed in 49 CFR 171 Subpart C to an ICAO air shipment of dangerous goods.
3. Identify state and operator variations that must be followed when making a shipment of dangerous goods.

**Module 3: Classification of Dangerous Goods**

1. Recognize the hazardous class and divisions employed by the ICAO for the classification of dangerous goods.
2. Recognize the hazard of a material based on the packing group.
3. Assign primary and subsidiary hazard classes/divisions to articles and substances with multiple hazards.



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**Module 4: Identification of Dangerous Goods**

1. Decipher information from the List of Dangerous Goods.
2. Select the most appropriate proper shipping name for a dangerous good.
3. Given a proper shipping name, determine whether that name requires additional technical information.
4. Determine if a given dangerous good meets the definition of a hazardous substance.

**Module 5: Packaging of Dangerous Goods**

1. Identify the ICAO general packing requirements for dangerous goods.
2. Select the packing instruction to be used for a given dangerous goods.
3. Determine the “Q” value for a packaging situation with more than one dangerous good in one package.

**Module 6: Hazard Communications**

1. Properly select and apply the markings to a given package of dangerous goods.
2. Properly select and apply the label(s) to a given package of dangerous goods.
3. Prepare a Shipper's Declaration for Dangerous Goods correctly, incorporating the required entries.
4. Document any applicable U.S. DOT variation on a Shipper's Declaration.
5. Endorse an air waybill for a shipment containing dangerous goods.

**Module 7: Other Requirements of Transport**

1. Prepare shipments using the defining criteria for dangerous goods in excepted quantities.
2. Prepare shipments using the defining criteria for dangerous goods in limited quantities.
3. Recognize the requirements for certain specialty material shipments.
4. State the training requirements applicable to a given “offeror” of dangerous goods.
5. State the requirements of the U.S. security regulations concerning the transport of dangerous goods.
6. Recognize the importance of a Dangerous Goods Transport Quality Assurance Program.