



Session 7

Training Facilities and Devices



Overview

- Classroom-based training
- Trainee to instructor ratio
- Representative training devices
- Safety & emergency equipment
- Cabin training devices
- Q&A

Classroom-based Training

- Doc 10002 provides guidance for facilities and equipment for classroom-based training
 - general space requirements
 - classroom facilities
 - learning environment
 - use of instructional aids



Trainee to Instructor Ratio

- In order to assess and evaluate trainee's competency
 - limits on ratio of trainees per instructor
- Numbers of instructors vary based on
 - different training environments
 - delivery methods
- ICAO recommends that operator determine ratio of trainees per instructor
 - satisfactory to State



Recommended Ratios

- **Classroom environment**
 - maximum of 20 trainees per instructor
- **Facilitating computer-based training**
 - maximum of 30 trainees per instructor
 - instructor limited to providing support
- **Conducting practical instruction**
 - maximum of 10 trainees per instructor
- **Familiarisation flights**
 - operator should establish limits on ratio
 - in accordance with national regulations
- **Consideration may prompt adjustment of trainee to instructor ratio**



Representative Training Devices

- Alternative to use of actual aircraft & equipment for training
- Use of such devices should be approved by State
- Representative training devices include
 - safety and emergency equipment
 - cabin training devices
 - emergency exit trainers
 - devices for firefighting
 - devices for water survival
 - devices for pilot incapacitation



Safety & Emergency Equipment

- Training for each piece of equipment should be based on following, if applicable
 - General description
 - Use
 - Location(s)
 - Pre-flight serviceability check(s)
 - Removal from stowage
 - Operation
 - Conditions for operation
 - Operational limitations and duration of use
 - Operation under adverse conditions
 - Precautions for use
 - Post-use procedures



Cabin Training Devices

- Capable of recreating realistic situations
- Can be used to provide effective training
- Should include parts of the cabin containing
 - lavatories
 - galleys
 - a type of emergency exit used in an aircraft
 - some seat rows
 - cabin crew seats
 - attendant panels
 - overhead bins
- **Not all components may be needed in single CTD**
 - depends on types of exercises carried out on device



Appendix: Approval Checklists

TRAINING DEVICES USED FOR FIREFIGHTING		
A simulated firefighting exercise must be conducted in a confined area, to simulate cabin fire, and under the supervision of an instructor		
Instructions: Check for presence, condition and accuracy.		
Specific part, component/item or feature	Meets requirements	Comments
4.1 The device used for a simulated firefighting exercise includes aircraft furnishings as found on board an aircraft, such as seats, galley units, lavatories, panels, overhead bins and waste bins	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
4.2 Firefighting equipment and the restraints used are representative to those installed on an aircraft with respect to weight, dimensions, controls, types and operations	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
4.3 The device used for live firefighting, and the facilities where it is housed, meet applicable safety standards for that type of training environment, as required by the State	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
4.4 Fire extinguishers used for live firefighting are charged with the appropriate agent or with an environmentally friendly agent	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	



Points to Remember

- Trainee to instructor ratios based on training
- Types of representative training devices
- Approval of devices by State
- Selection based on exercises being conducted

