

# Inspector Competency Building Framework (ICBF) course

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### **Course Objectives**

➔ Provides guidance for States to develop a training programme in compliance with ICAO requirements;

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- ✤ Provide States with the guidance to improve CE-4 effective implementation scoring by increasing the number of qualified inspectors;
- ✤ Improving the safety oversight function.



### **Course Structure**



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Methodology



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### **Administrative Notes**





**Registration form** 

Punctuality



Participation



No phones, but use your laptop



Feedback form







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### **ICAO Chicago Convention**



### **Article 37: National Law**

# Each State will develop a National Air Law in accordance with the ICAO SARPs





### **The National Air law**

- ✤ Should Provide for Proper:
  - Creation of CAA
  - Promulgation of regulations
  - Regulation of industry
  - Enforcement





### These Job Functions are accomplished by Inspectors



### **CAA Authority:**

- 1. Develop regulations
- 2. Issue AOCs, etc
- 3. Conduct inspections
- 4. Take corrective action





### **ICAO: Inspector Staffing**

- ✤ Must be properly organized
- → Competent
- ✤ Qualified

Doc 8335, Part I, Par. 5.3 Doc 9760, Part II, Par. 3.1.3 Doc. 9734, Part A, Par 3.4.2







### **ICAO: Inspector Staffing**

"The State civil aviation system must be **properly organized** and staffed with **qualified personnel** capable of accomplishing the required wide range of technical duties involved in safety oversight"

ICAO Doc. 9734, Part A, Par. 3.4.2.1





**ICAO:** Inspector Duties

→ Certification of operators

Personnel licensing

+

+

+

+

Continuing surveillance of operators

**Recommending corrective action** 

Informing the CAA and operator of deficiencies



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Doc 8335, Part I, Par. 5.2 & 5.4 Doc 9760, Part II, Par. 3.1

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### **ICAO: Inspector Responsibilities**

- ✤ Vital importance
- ✤ Perform a critical job function
- ✤ Essential to aviation safety
- ✤ Essential to meeting State ICAO Obligation



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Doc. 8335, Part I, Par. 5.4 Doc. 9734, Part A, Par. 3.5.1



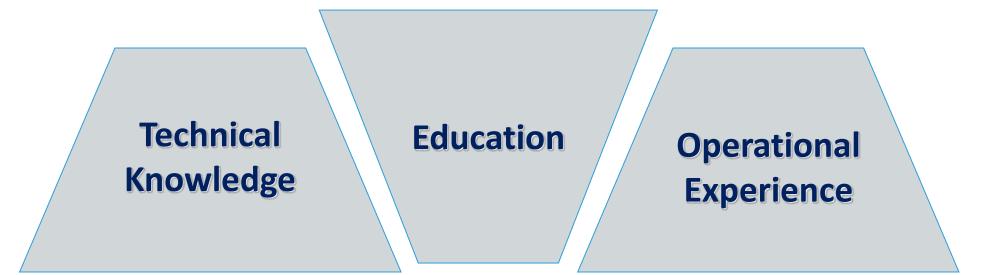


### **ICAO: Inspector Quality**

"The satisfactory execution of the various functions of the CAA Inspectorate depends to a large extent on the qualifications, experience, competence and dedication of individual inspectors"







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# CAA Inspectors should compare favorably with the personnel they will inspect.

Doc 8335, Part I, Par. 6.2



### **Inspector Pay**

- ✤ Consistent with education & technical experience.
- ✤ Comparable to industry personnel.
- ✤ The CAA must be a competitive employer.



ICAO Doc. 9734, Part A, Par. 3.4.2

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### **Inspector Cost**

- ✤ Inspectors represent the CAA.
- The CAA must be prepared to finance inspector initial and recurrent training.

"The cost of recruiting, retaining and training inspectors who satisfactorily meet the requirements of the profession represents a significant financial commitment and may require revisions to long-standing policies and regulations regarding remuneration for qualified technical personnel."

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ICAO Doc. 9734, Part A, Par. 3.4.2 ICAO Doc. 9734, Part A, Par. 3.5.2





### **ICAO: Required Training**

- ✤ The CAA must:
  - Determine the minimum qualifications for new-hire personnel;
  - Provide the training necessary to accomplish their responsibilities;

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- Initial & Recurrent;
- Technical & Administrative.



### **ICAO: Inspector Training**

Continuous development knowledge & skill

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- ✤ All inspector duties & responsibilities
- ✤ CAA regulations, procedures, enforcement
- ✤ Refresher courses in all responsibilities
- ✤ Participation in seminars & workshops
- Technical report writing
- Supervisory training



"The result of such training is better job performance and greater respect from those who are inspected and supervised by the CAA"

ICAO Doc. 9734, Part A, Par. 3.5.2

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Inspector Development Concept

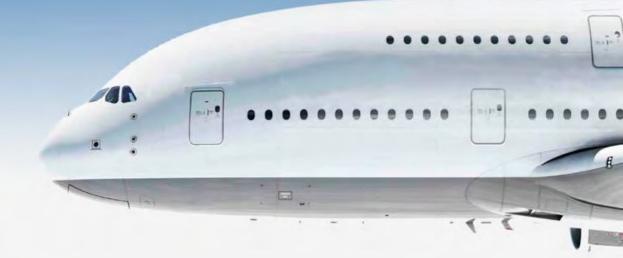
Start







## Any Question ? Module 1







## Module 2 ICBF Overview







### **ICBF System**

- ✤ Complete system
- ✤ Built on best practices of CAA
- ✤ Complies with ICAO
- ✤ Complies with IASA







### 5 (five) Main Component

- ✤ Program Guide
- → OJT Guide
- ✤ Formal Course Standards
- ✤ Job Task Analysis
- ✤ Training Record System



### **Program Guide**

 Describes the requirements, objectives, and procedures for operation of the Inspector Competency Building Framework (ICBF)

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- ✤ Inspector training profile
- ✤ Positions descriptions



### **OJT Guide**

✤ Detailed procedures for the conduct of on-the Job Training

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- ✤ 3-Phase OJT system implementation
- → 3-Levels OJT delivery process
- ✤ Instructions for Training Record Software





### **Formal Course Standards**

 Describes the course description, and minimum requirements for all formal classroom style inspector training courses



### Job Task Analysis

 A detailed inventory of the requirements associated with each technical Job Task

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- Separate listing for OPS Inspector, AIR Inspector, PEL Inspector, ANS Inspector, AGA Inspector, AIG Investigator, etc.
- Description of the task, required supporting documents, and a step-bystep listing of the subtasks that must be performed to accomplish the task





### **Training Record**

✤ An internet database or Inspector worksheet profile record that is used to record all training completed in the ICBF.





## Any Question ? Module 2







## Module 3 Training Policy





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### What is Policy ?

- ✤ Wise, expedient, or prudent conduct or management
- ✤ A principle, plan, or course of action





### **Training Policy**

Commitment to develop Inspectors through training

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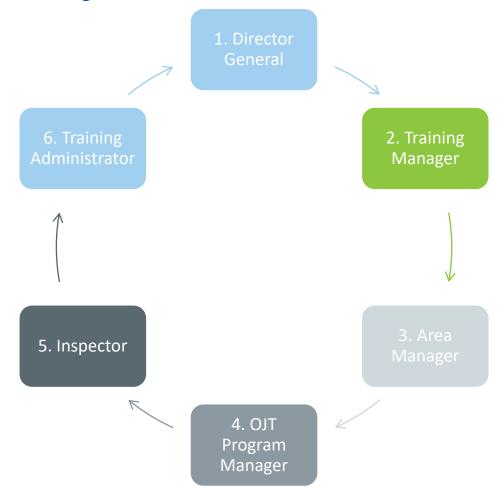
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- In job functions
- From new hire to retirement
- ✤ To fulfill:
  - CAA mission
  - State ICAO requirements
  - Gain industry compliance
  - Safeguard the traveling public



### **Roles and Responsibility of CAA**

All 6 roles must work together to successfully implement the policies of the ICBF



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## Any Question ? Module 3







# Module 4 New Hires Inspector







#### **New Hire Requirements**

- → General requirements
- ✤ Specific requirements





#### **ICAO: New Hire – General Characteristics**

- ✤ Technical Competency
- Integrity, Impartial
- ✤ Initiative, Tact, Tolerance, Patience
- ✤ Good understanding of human nature
- ✤ Good communications skills





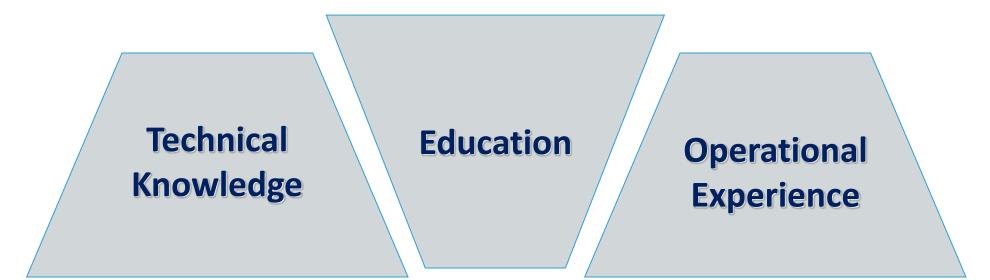
#### **ICAO: New Hire – General Technical Requirements**

- ✤ Broad air transport background: 5 years +
- Experience operating or maintaining transport aircraft
- Meteorological knowledge & experience
- Experience in technical training, visual aids, training devices, flight simulators

Doc. 8335, Part I, Par. 6.2; Doc. 9760, Part II, Par. 3.1.3; Doc. 9734, Part A, Par. 3.5.1







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#### CAA Inspectors should compare favorably with the personnel they will inspect.

Doc 8335, Part I, Par. 6.2 Doc. 9760, Part II, Par. 3.1.3 Doc. 9734, Part A, Par. 3.5.1





Doc. 8335, Part I, Par. 6.2

#### **ICAO: New Hire Operations Inspector**

- Extensive experience as a pilot, instructor, or in operational management
- ✤ Airline Transport Pilot's license
- ✤ 5,000+ hours as pilot-in-command
- ✤ Qualified on operator aircraft



- The flight operations inspector applicant should hold or have held a pilot licence/rating at least equal to the licence/rating for which assessments are conducted and have relevant experience in the aircraft operations subject to oversight.
- ✤ Knowledge of safety management systems is desirable, as is relevant experience in the provision of flight training and checking

Doc. 10070, Part 2.2.3

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#### **ICAO: New Hire Airworthiness Inspector**

- Extensive academic & technical Extensive academic & technical education
- Positions of increased technical and Positions of increased technical and supervisory responsibility
- Aeronautical licenses, Aeronautical licenses, certificates or academic certificates or academic degrees commensurate degrees commensurate with job responsibilities

Doc. 8335, Part I, Par. 6.2.5; Doc. 9760, Part II, Par. 3.1.3



✤ The airworthiness inspector applicant should generally hold an aircraft maintenance technician licence or a similar qualification in an approved maintenance organization.

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Doc. 10070, Part 2.2.2

 Knowledge of quality and safety management systems is desirable, as is relevant experience in the provision of maintenance training and checking







Doc. 10070, Part 2.2.4

#### **ICAO: New Hire ANS Inspector**

- The air navigation services inspector applicant should hold or have held an air traffic controller license (or equivalent qualification) and have relevant experience in the duties assigned by the CAA
- ✤ Knowledge of safety management systems is desirable, as is relevant experience in the provision of air traffic services training and checking





#### **ICAO: New Hire AGA Inspector**

- Experience a broad exposure to aerodrome ground operations
- Engineer (civil or electrical) with adequate experience in aerodrome/heliport planning, operation or maintenance and should possess a sound knowledge of Annex 14-Aerodrome, Volume 1-Aerodrome Design and Operations and Volume II – Heliports, relevant ICAO manuals and national regulations and practices
- ✤ Aerodrome / Heliport management experience and knowledge of SMS





#### **ICAO: New Hire AIG Investigator**

- → an understanding of the depth of investigation that is necessary in order for the investigation to conform with the legislation, regulations and other requirements of the State for which they are conducting the investigation
- ✤ a knowledge of aircraft accident investigation techniques
- ✤ an understanding of aircraft operations and the relevant technical areas of aviation
- ✤ the ability to obtain and manage the relevant technical assistance and resources required to support the investigation
- ✤ the ability to collect, document and preserve evidence
- → the ability to identify and analyze pertinent evidence in order to determine the causes and, if appropriate, make safety recommendations; and the ability to write a final report that meets the requirements of the accident investigation authority of the State conducting the investigation



#### **Inspector Pay**

- Consistent with education & technical experience
- Comparable to industry personnel
- ✤ The CAA must be a competitive employer

ICAO Doc. 9734, Part A, Par. 3.4.2



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#### **Developmental Inspector**

✤ A person hired to be an inspector but who does not meet all of the minimum recruitment standards specified by the CAA

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- ✤ An inspector who has not yet completed minimum core training
- These persons will continue to develop their training and experience under the guidance of the CAA until they meet the minimum requirements for Principal Inspector







#### **Inspector Competency Framework**

ETHIC AND VALUES	Demonstrates integrity, transparency, openness, respect and fairness and considers the consequences when making a decision or taking action. Acts consistently in accordance with fundamental values of the civil aviation authority
COMMUNICATION	Effectively conveys, receives and understands information in oral, written and non-verbal modes
PROBLEM SOLVING AND DECISION MAKING	Solves issues of varied levels of complexity, ambiguity and risk. Makes timely decisions that take into account relevant facts, tasks, goals, constraints, risks and conflicting points of view
INITIATIVE	Identifies and addresses issues independently, proactively and persistently to achieve objectives
TECHNICAL EXPERTISE	Applies and improves technical knowledge and skills to perform safety oversight duties in a specific aviation discipline





#### **Inspector Competency Framework**

SYSTEMS THINKING	Understands and determines how the various components of management systems interact and affect the overall system safety performance
<b>RISK MANAGEMENT</b>	Demonstrates an effective approach to the oversight of a stakeholder considering its business model, risk profile and its availability of resources
LEADERSHIP AND TEAMWORK	Collaborates up, down and across the organization to foster and promote a clear vision and common goals. Energizes others to achieve the goals and positive results
<b>CRITICAL THINKING</b>	Analyses information in order to consistently achieve desired outcomes





# Any Question ? Module 4







# Module 5 Training Profiles





**Training Profile** 



Training Profiles show required training in a simple visual format

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## **Required Training**

 Training Profiles show the mandatory training that is required for all Inspectors







## **Training Categories**

- Indoctrination
- Certification
- Surveillance
- Personnel Licensing
- Investigation
- ✤ Job Skills
- ✤ Specialty Inspector
- ✤ Management

#### - CORE TRAINING

## **OPTIONAL TRAINING**



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#### Indoctrination

- ✤ For all new employees
- ✤ Basic administrative skills
- Normal office procedures









#### **Aviation Industry Organizations:**

- ✤ Air Operators
- ✤ Aircraft Maintenance Organizations
- Design Organization Approval (DOA)
- → Aerodrome (Airport, Heliport, Water Aerodrome)
- ✤ Air Navigation / ATS Provider
- ✤ Regulated Agent
- → etc



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#### Surveillance

- ✤ Inspection of Operators
- ✤ Approved Air Operator Training Program





#### **Personnel Licensing**

- Flight & Ground Personnel
- Normally Pilot, Flight Engineer, Aircraft Maintenance Engineer, FOO, ATC, CNS personnel, DG personnel, Aerodrome personnel.

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- Includes Flight Training (for Pilot, FE, Cabin crew) or OJT (for ATC, FOO, CNS, etc)
- ✤ Aviation Training Organization (ATO)



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## Investigation

- ✤ Aircraft Accidents
- → Serious Incident
- ✤ Incident
- → Law Enforcement
- → etc





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## Job Skills

#### **Optional training:**

- Advanced Techniques
- ✤ Safety Management Systems
- ✤ Foreign Air Carriers
- ✤ Aircraft Certification
- ✤ Major Repairs & Alterations
- → Simulator Evaluation
- → etc





## **Specialty Inspector**



✤ Aircraft Dispatcher – OPS Profile

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- → Cabin Safety OPS Profile
- ✤ Avionics AIR Profile
- ✤ Fire-Fighting AGA Profile
- → AFIS ATS Profile
- ✤ Data Processing CNS Profile
- → etc







#### Management

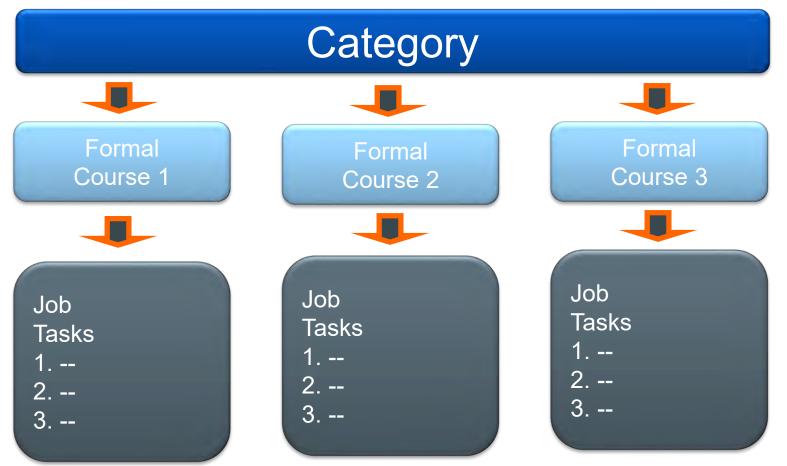
✤ Same as Indoctrination but with management responsibilities







#### **Training Requirements**







## **Training Required**

# Required training is based on the Job Tasks that an inspector will be asked to perform.

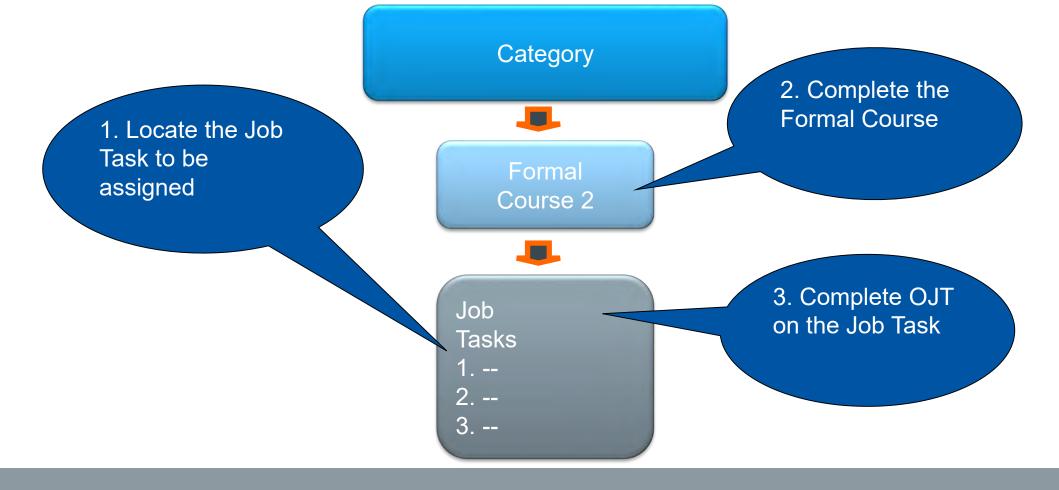








## **To Determine the Training Required** (Course Developer Unit is Needed)







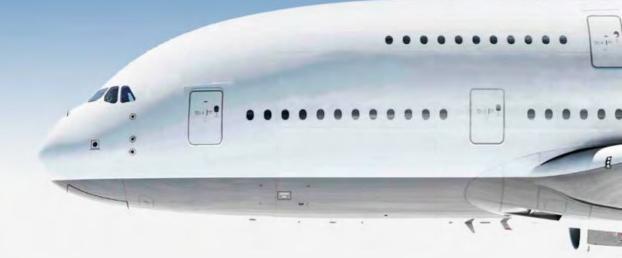
### **Final Qualification Inspector**

- ✤ Inspector must complete both:
  - 1. Formal Training Course
  - 2. On-the-Job Training
- → For each Job Task before given the authority to accomplish that Job Task without supervision.





# Any Question ? Module 5





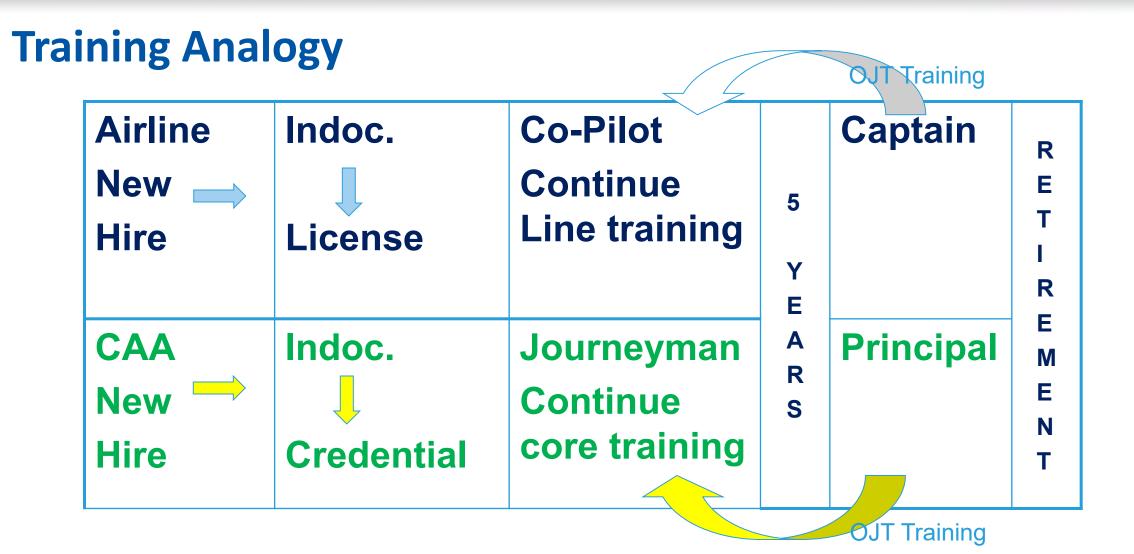


# Module 6 Training Process











New Hire Inspector -Meets Criteria? – Issue Developmental PD.

Formal Indoctrination Training Course OJT on Indoctrination Job Tasks

Issue Inspector Credential

Formal AOC Certification Course OJT on Associated Job Tasks

Formal Surveillance Training Course OJT on Associated Job Tasks

Formal Personnel Licensing Course OJT on Associated Job Tasks

Formal Investigations Course OJT on Associated Job Tasks

Assignment as Journeyman Inspector - Issue Position Description -

Optional Job Skills and Specialty Training Courses as Required. OJT on Associated Job Tasks

Recurrent Training Program

## **Training Process**

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## What is Authority ?

- Power to represent the government
- Conveyed by inspector credential
- Requires completion of Indoctrination Formal Course



## What is Qualification ?

- ✤ Certification of ability
- Achieved one Job Task at a time
- ✤ Requires completion of OJT and the associated Formal Course
- ✤ Conveyed by Office Mgr. sign-off in training record



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## What is Authorization ?

- ✤ Official assignment to responsibility
- Conveyed by Position Description
- Requires completion of required training, such as Minimum Core courses for Principals







## **Example of Certification Training Category**

- ✤ Several Formal Course
  - Air Operator Certification
  - AMO Certification
  - ATS unit Provider Certification
  - AFIS Certification
  - Aerodrome or Heliport Certification
  - Regulated Agent Certification
  - etc





# Formal Course AMO Certification

- Individual Job Task
  - ► Approve Records
    - Evaluate Facilities







- Individual Job Task
  - ► Approve Records





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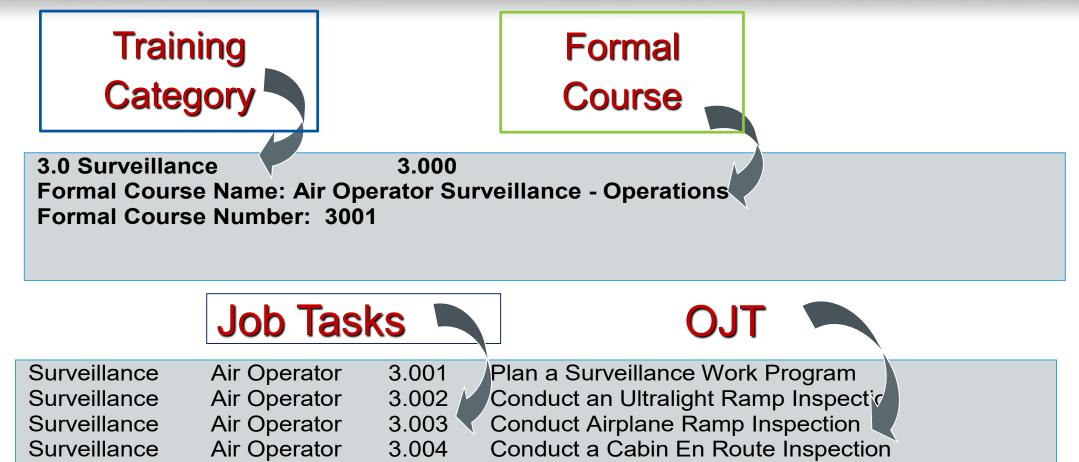




Surveillance

Air Operator





3.005 Conduct a Cockpit En Route Inspection





## **Final Qualification Inspector**

- Inspector must complete both:
  - 1. Formal Training Course
  - 2. On-the-Job Training



→ For each Job Task before given the authority to accomplish that Job Task without supervision.





## Any Question ? Module 6







## Module 7 Formal Course Standards





## What is Formal Course?

- ✤ Normally taught in a classroom.
- Presented by trained expert instructor.
- Includes interaction with other students.
- ✤ Includes courseware:
  - Approved Curriculum
  - Book
  - Presentations
  - Exercises, Exams, etc



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## What Content Should these Courses Contain?



- → What subjects?
- ✤ How many hours?
- ✤ Prerequisites?
- ✤ What is required by ICAO?

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## Formal Course Standards (FCS)

- Describes the minimum course content that is required for all formal courses.
- ✤ Organized according to the Training Categories









Course Number	2001	
Course Title	Air Operator Certification - Operations	
Training Profile	Operations	
Training Category	Certification 2.0	
Sequence	Initial	
Course Length	80 Hours	
Course Objective	Objective	
Course Description	Narrative Description	
Course Content	Required Subjects	
Prerequisites	None	
Revision Date	June 1, 2019	
Course Manager	Flight Standards Training Manager	
Associated CAA training Courses	CAA course numbers for website reference	

### **FCS Format**

The FCS describes and specifies minimum content for classroom training courses.



### Ways to use the FCS

 Find the minimum standards for formal courses that are acceptable in ICAO and ICBF

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- Compare an existing course to see if it should be provided to your CAA inspectors
- Specify minimum content for a course you are planning to develop in your department



## Meeting the Standard!

 All formal classroom training courses provided to CAA Inspectors must meet the minimum requirements specified in the Formal Course Standards in order to be used for credit in the ICBF



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## What Should You Do With a Deficient Course?

- Choose an another course
- Modify the course with additional time and content so that it complies with ICBF
- Complete the deficient course and then take a second supplementary course

*"ICBF requires high quality courses that meet the minimum standards specified in the FCS"* 





## Any Question ? Module 7







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## What is a Job Task?

 A single identifiable unit of work that is regularly accomplished by CAA Inspectors





## What is a Job Task <u>Analysis</u>?

- ✤ A written description of the materials, procedures, and requirements that are used to accomplish a Job Task, including:
  - Supporting documents.
  - Completion standards.
  - Narrative description of the task.
  - Step by step listing of required sub-tasks.



A separate Job Task Analysis has been prepared for each inspector Job Task.

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ICAO COSCAPSEA



Job Task #:	OPS 3.003
Title:	Conduct Airplane Ramp Inspection
Approval Date:	August 1, 2019
Comments:	Operator Specific
Inspector Type:	Operations
Training Category:	Surveillance
Frequency:	Scheduled
Associated CAA Job Tasks #:	2.001
<b>Regulation References:</b>	
CAA Forms:	
Guidance Material References:	ICAO Doc., Civil Aviation Safety Regulation, staff instruction, etc
Task Description:	To determine that an Air Operator aircraft is in compliance with the CARs during an actual operation.
Job Performance Subtasks:	Sub-Task 1 Sub-Task 2 Sub-Task 3

## J.T.A. Document

#### Each JTA provides:

- Requirements
- References
- Description
- Step-by-step subtasks



### ICAO COSCAP SEA



Job Task #:	OPS 3.003
Title:	Conduct Airplane Ramp Inspection
Approval Date:	August 1, 2019
Comments:	Operator Specific
Inspector Type:	Operations
Training Category:	Surveillance
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<b>Regulation References:</b>	
CAA Forms:	
Guidance Material References:	ICAO Doc., Civil Aviation Safety Regulation, staff instruction, etc
Task Description:	To determine that an Air Operator aircraft is in compliance with the CARs during an actual operation.
Job Performance Subtasks:	Sub-Task 1 Sub-Task 2 Sub-Task 3

## J.T.A. Document

- JTA Number
- Identifiable unit of work
- Date of JTA issue
- May require knowledge of specific company procedures
- Inspector type
- Training category
- Schedule
- Document reference
- Narrative task description
- Steps to accomplish the task



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## JTAs Tell Us:

#### Trainee: How to perform the job

# Instructor: The steps and requirements to teach when conducting training on the task



## **JTA Organization**

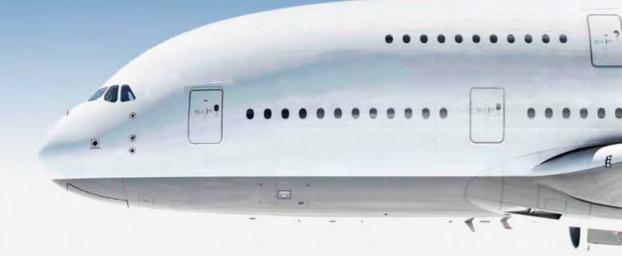
- ✤ Job Tasks are listed in the Inspectors Training Profiles
- ✤ Divided into the Training Categories
- ✤ All possible Job Tasks are listed
- ✤ OJT is required only for those Job Tasks that an inspector will be assigned to perform

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## Any Question ? Module 8







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## **Structured OJT Process**

#### **Unstructured OJT**

- haphazard
- unplanned
- Inconsistent
- less effective
- "Go-sit-with-Joe" training



#### <u>Structured OJT</u>

- Timely according to need
- Consistent
- Proven more effective
- Higher retention
- Measured results







## **OJT & Classroom Training**

#### **Similarities**

- Scheduled training
- Planned lessons
- Evaluate learning with a test

#### **Difference**

- OJT is flexible
- Less formal
- Tailored to the needs of an individual
- Used to assure final inspector qualification



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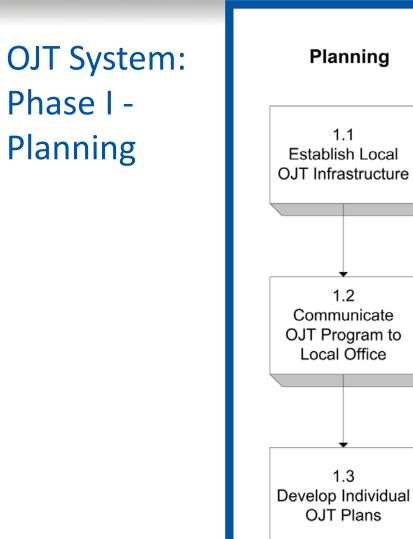
## **OJT Process**

- ✤ OJT System Implementation
  - Phase 1 Planning
  - Phase 2 Delivery
  - Phase 3 Evaluation

- OJT Instructor Process
  - Level 1 Knowledge
  - Level 2 Understand
  - Level 3 Perform



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- 1. Select the OJT Program Manager
- 2. Review the OJT needs of the local office
- 3. Select OJT Instructors

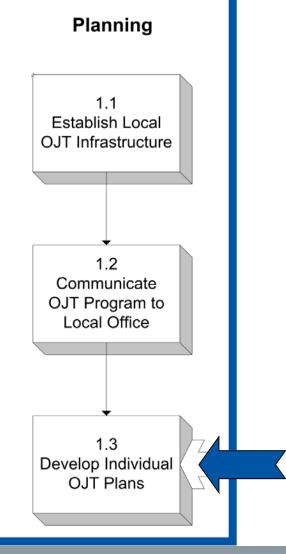


**OJT System:** Planning Phase I -1.1 Planning **Establish Local OJT** Infrastructure 1. Meeting of key participants. 2. Provide all ICBF documents. 1.2 Describe the program. 3. Communicate OJT Program to Build "Positive Safety Culture" through 4. Local Office communication, training, sharing. 1.3 **Develop Individual OJT Plans** 

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#### **Meet with Each Trainee:**

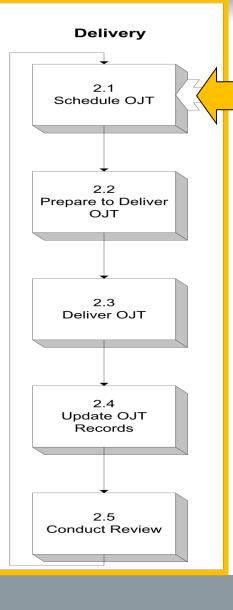
- Review the OJT process
- Agree on Job Tasks
- Assess previous experience
- Agree on formal training
- Provide resources
- Set up the Training Record for the trainee

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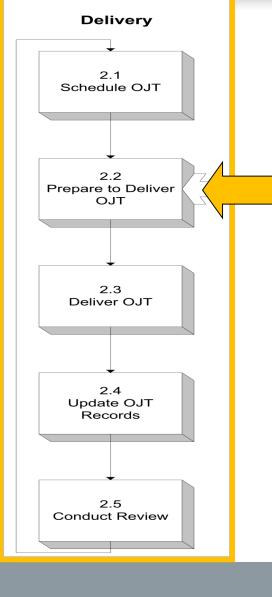
OJT System: Phase II -Delivery



- 1. Schedule work time to accomplish OJT
- 2. Consider Training Level and task complexity
- 3. Level I = self study + discussion
- 4. Levels II & III = actual task performance
- 5. Planning: Normal time + 50%
- 6. Example: 1.0 hr task  $\implies$  1.5 hrs for OJT



OJT System: Phase II -Delivery

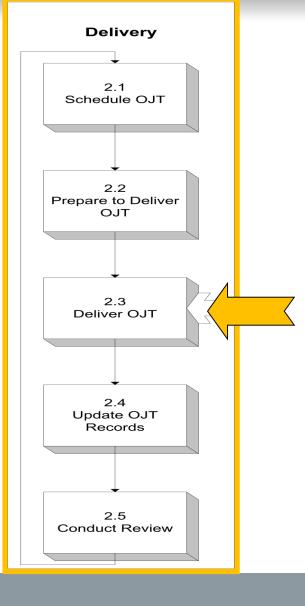


- 1. Review Job Task Analysis
- 2. Gather needed equipment
- 3. Arrange for assistance if needed
- 4. Create a lesson plan if needed
- 5. Finalize logistics



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OJT System: Phase II -Delivery



Level	Trainee	Instructor
l Knowledge	Study	Discuss
ll Understand	Observe	Demonstrate
lll Perform	Perform	Evaluate

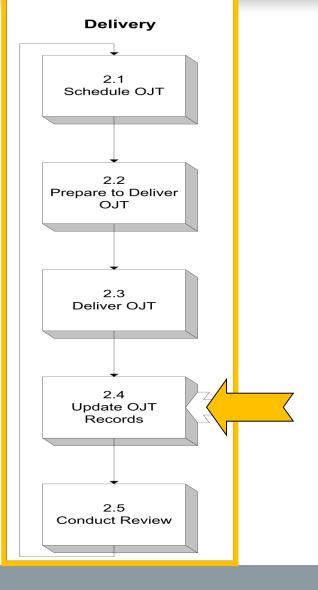








OJT System: Phase II -Delivery



- 1. Update ITS Training Record.
- 2. Done by OJT PM with manager's approval.

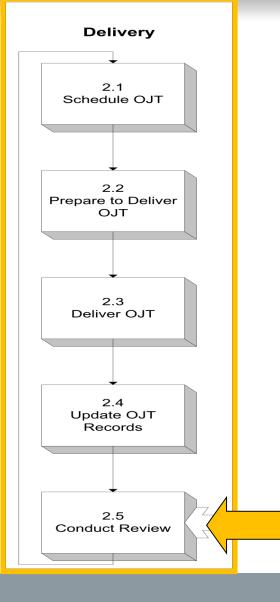
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- 3. Data entry:
  - Find Job Task
  - Find level of training
  - Enter date completed



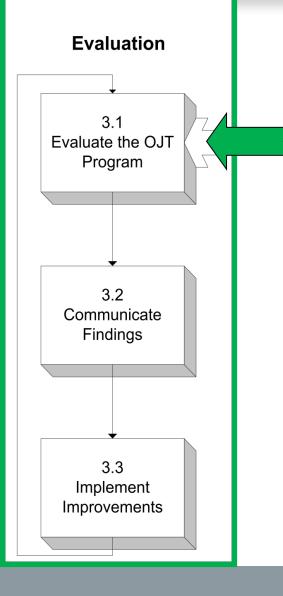
OJT System: Phase II -Delivery



- 1. Individual OJT Review
- 2. Quarterly [or as needed]
- 3. Review:
  - Progress & status
  - Accuracy
  - Problems
  - Modify OJT plan as needed
  - Identify next tasks & opportunities



OJT System: Phase III -Evaluation



Conduct annual system evaluation

Local & national

1.

2.

3.

Use documents (OJT Evaluation Question for Trainee

4. Use documents (OJT Evaluation Question for OJT Instructor, OJT Program Manager and Training Manager (Office Manager)



OJT Evaluation Questions – Trainee

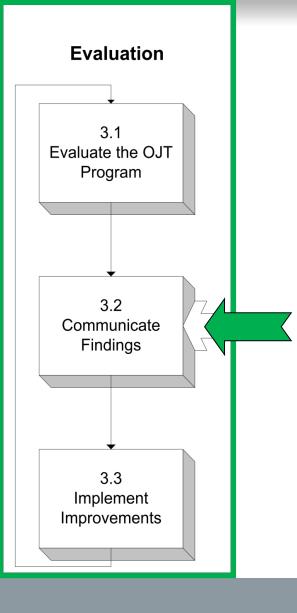
#### **NO COUNTRY LEFT BEHIND** SAFETY

OJT Evaluation Questions - OJT Instructor, OJT PM, Office Manager

1.	What do you like best about the OJT Program?	1.	What do you like best about the OJT Program?
2.	What do you think could be improved in the OJT Program?	2.	What do you think could be improved in the OJT Program?
3.	Is the OJT Guide being followed? Yes  No Don't know What part(s) is/are not being followed and why?	3.	Is the OJT Guide being followed? Yes □ No □ Don't know □ What part(s) is/are not being followed and why?
4.	What is the most time-consuming aspect of OJT for you and why?	4.	What is the most time-consuming aspect of OJT for you and why?
	Is it time well spent? Yes 🗌 No 🗌 Don't know 🗌		Is it time well spent? Yes 📄 No 📄 Don't know 📄
5.	Did you have an opportunity to give open feedback to your supervisor about your OJT? Yes No	5.	Do you find yourself needing to use the expertise of other personnel to deliver OJT? Yes [ No □ How, and for what subjects?
6.	Did you have a clear understanding of the objectives for your OJT tasks? Yes 🗌 No 🗌		
7.	Was your learning environment free from distractions? Yes  No		
8.	Did your instructor provide the necessary assistance to help you achieve the objectives? Yes No	6.	What kind of planning activities do you do to prepare to deliver an OJT session?
9.	Do you feel confident that you met the objectives during you OJT? Yes D No		
10	. Have you received sufficient support from your Office Manager during OJT? Yes 🗌 No 🗌	7.	Does your office have a sufficient number of instructors? Yes  No No
Со	omments		



OJT System: Phase III -Evaluation



- 1. Communicate evaluation results
- 2. Share feedback, problems, suggestions

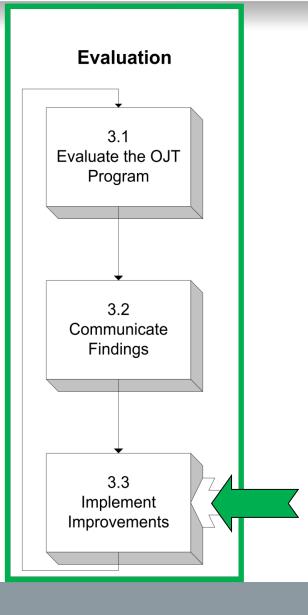
**NO COUNTRY LEFT BEHIND** 

SAFETY

- 3. Revise documents
- 4. OJT PMs communicate:
  - to management to local offices



OJT System: Phase III -Evaluation



- 1. Identify problems
- 2. Make improvements
- 3. Distribute revised documents

**NO COUNTRY LEFT BEHIND** 

SAFETY







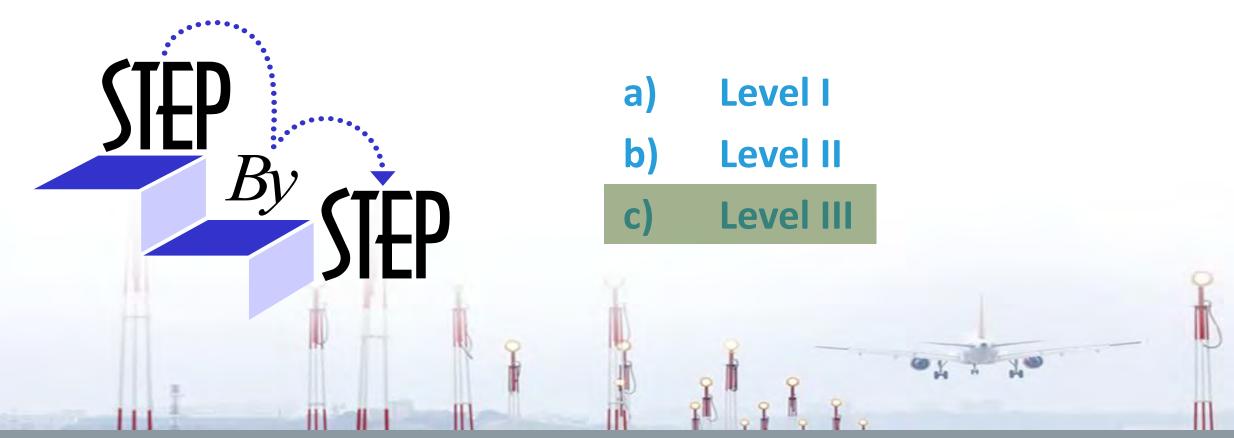
- Level 1 Knowledge
- Level 2 Understand
- Level 3 Perform

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# Which of these training levels is basically observing the trainee perform the task?







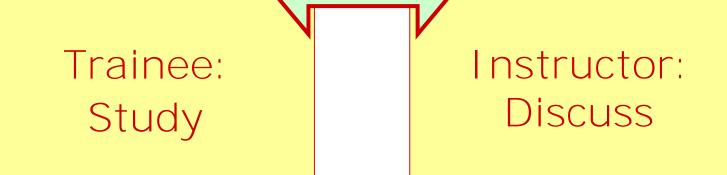
# Who authorizes you to conduct OJT once you have completed OJT instructor training?

- a) Training Manager
- b) Supervisor
- c) OJT Program Manager



**Level I Purpose** 









## **Conducting Level I**

#### First Meeting:

- Provide JTA and guidance materials
- Assign independent study

#### Second Meeting:

- Put trainee at ease
- Discuss performance objectives
- Discuss JTA and guidance materials
- Conduct validation



## **Level I Objectives**

1. Identify guidance materials and tools for the task

RYIF

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NO

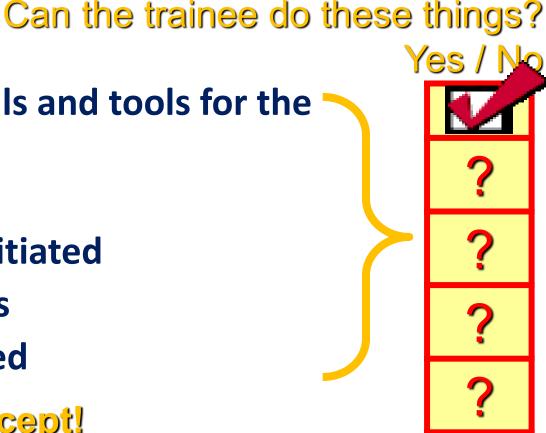
- 2. Define key terms
- 3. Explain how the task is initiated
- 4. Explain the task outcomes
- 5. Describe how task is closed



Level I Validation

- Identify guidance materials and tools for the task
- **2.** Define key terms
- **3.** Explain how the task is initiated
- 4. Explain the task outcomes
- **5.** Describe how task is closed

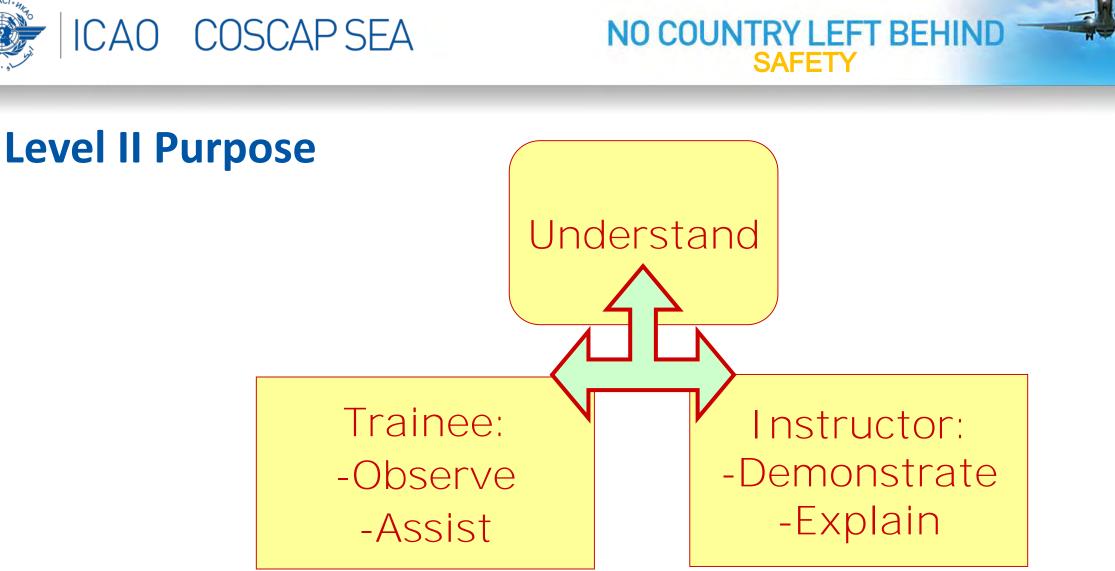
Use the "show me" concept!



NO COUNTRY | FFT

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## **Conducting Level II**

- ✤ Review Level I
- ✤ Gather required materials
- Discuss performance objectives
- ✤ Demonstrate task & explain
- Trainee observes / assists if able
- ✤ Ask trainee for next steps
- ✤ Ask how each step is performed





## **Ask Interactive Questions**

- Require more than a one-word answer
- ✤ Require attention & application
- ✤ Questions that use:
- What, which, when where, why, how
- Use the "show me" concept

- What would you do next?
- Do you understand?
- Am I doing this step correctly?



## **Level II Objectives**

- 1. Describe sequence of steps to accomplish task
- 2. Describe how materials, forms, equipment are used

SAFETY

- 3. Describe interactions with other personnel
- 4. Describe coordination with operator

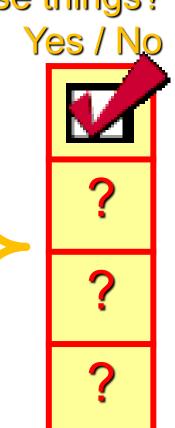


Level II Validation

Can the trainee do these things?

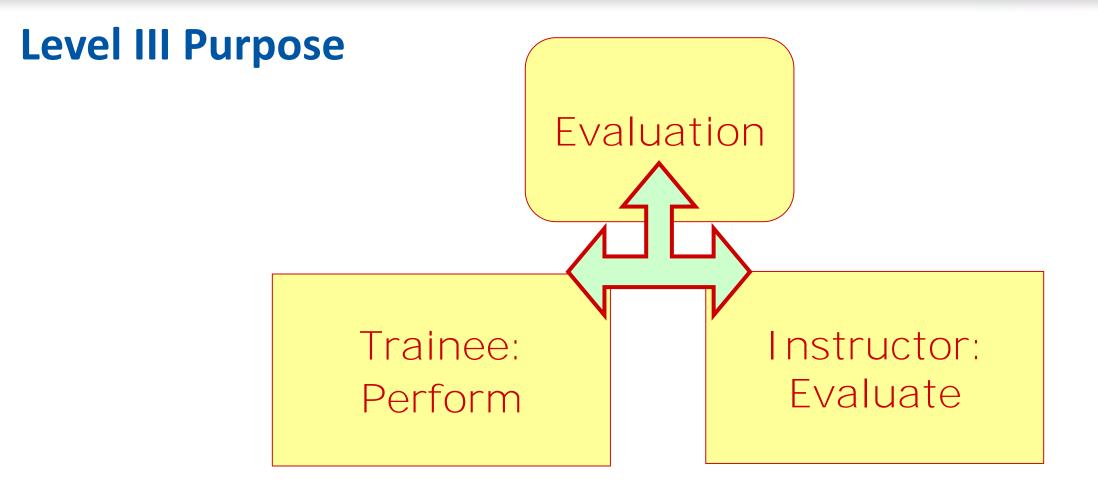
SAFFTY

- 1. Describe sequence of steps to accomplish task
- 2. Describe how materials, forms, equipment are used
- 3. Describe interactions with other personnel
- 4. Describe coordination with operator













## **Conducting Level III**

- ✤ Review Level II
- Explain expectations
- Observe trainee
  - Use JTA to check his steps
  - Circle omitted or incorrect steps for debriefing
- ✤ Assist only if required
- ✤ Stop for unsafe or illegal actions
- ✤ May need more than one session





## Level III Consideration

- ✤ Is the task a simulation or the real thing?
- ✤ Did the trainee prepare adequately?







#### **Give Effective Feedback**



- → Be Specific
- > Objective
- Non-judgmental
- → Corrective
- ✤ Balanced
- → Timely
- → Private



## **Level III Objectives**

- 1. Demonstrate sufficient knowledge to accurately complete the task
- 2. Complete all steps necessary to complete the task
- 3. Complete steps in proper order
- 4. Perform task in timely manner and without assistance
- 5. Demonstrate proper judgment concerning the outcome of a task, and close it out in the correct manner



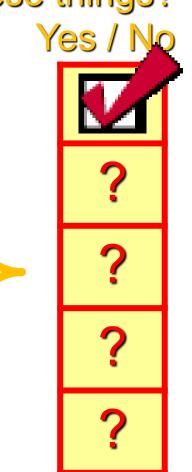
**Level III Validation** 

## Can the trainee do these things?

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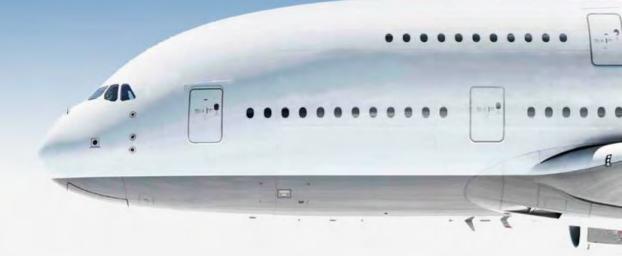
- 1. Demonstrate sufficient knowledge to accurately complete the task
- 2. Complete all steps necessary to complete the task
- **3.** Complete steps in proper order
- 4. Perform task in timely manner and without assistance
- 5. Demonstrate proper judgment concerning the outcome of a task, and close it out in the correct manner







## Any Question ? Module 9







## Module 10 Training Record







# ICAO requires a permanent training record.





Operations Inspector Training Profile Worksheet										
Inspec	tor Name:									
1.0 Ind	octrination									
Forma	Ourse Name: New Emplo Course Number: 1001 Ompleted:	oyee Orientat	tion							
Task	Description	Planned	Lev	el 1	Lev	el 2	Level 3			
1 doix		Date	Date	Initials	Date	Initials	Date	Initials		
1.001	Employee benefits									
1.002	Time and Attendance									
1.003	Employee Training and Development									
1.004	Office Communications									
1.005	Computer Systems									
1.006	Managing Resources									
1.007	Employee Ethics									
1.008	Labor Unions									
1.009	Conduct and Discipline									
1.010	Travel									
1.011	Security									



T	Emp	oyee Name: Double Dawg Dare				D: GL12			Employ		ata	
	Discipline: AIR Airworthiness				fice Manage				Linpio,			
	Decit	Hire Date: 01-Dec-2008 ion Number: 1144		0	Superviso JT Instructo			1				)
		n Description: 06. AIR – Principa	al Avionics Inspect	_	Jor instructi	Jr. CGIVI						
	1 OSIGO		ar / wonies inspect	01								
		Number: 1001										To view entire comment
	Course		ion									1. Click on desired Comment
	Comple	eted Date: 12-Dec-2002	DD-MMM-YYYY									2. Press "Shift F2" 3. Press "Cancel" when done
	Total Ta		F	Planned	Level	1	Level	2	Level	3	Manager	S. Tress Galicer when done
	Task	Description		Date:	Date	Initials	Date	Initials	Date	Initials	Initials	Comments
			?									
	1.001	Employee pay, benefits, leave, he	alth, retirem <b>?</b> 15	-Dec-200/1	5-Dec-2002	CGM	17-Dec-2002	CGM	22-Dec-2002	CGM	CGM	Good Job!
▶	1 002	Time and Attendance	2 27	-Dec-2002								
					•							
	1.003	Employee Training and Developm	ent Process ?									
	1.004	Office Communications	?									
	1 005	Computer Systems / Info Technol	ogy ?									
	1.006	Managing Resources	?									
	1.007	Employee Ethics	?									
_	1.008	Labor Unions	?									
	4 000											
	1.009	Conduct and Discipline	?									
	1.010	Travel and Per Diem	?									
	1.011	Security	?									
	2 001	Cert Phase I: Preapplication Phase	co. (Cato I) [2]									
									II			
	2.002	Cert Phase II: Formal Application	Phase - (Ga <b>?</b>									
	2 003	Cert Phase III: Document Complia	ance Phase 🛜									1
			Save and Clo	se		Ca	ncel					



Employee Name: Double Dawg Dare       Office ID: 0         Discipline: AIR       Airworthiness       Office ID: 0         Hire Date: 01-Dec-2008       Supervisor: 0         Position Number: 1144       OJT Instructor: 0         Position Description: 06. AIR – Principal Avionics Inspector       Form         Course Number: 1001       Course Name       New Employee Orientation						er: CGM or: CGM					To view entire comment 1. Click on desired Comment 2. Press "Shift F2"
	Total Task	eted Date: 12-Dec-2002 asks 182 Description	DD-MMM-YYYY Planned Date:	Level Date	1 Initials	Level Date	2  nitials	Level Date	3 Initials	Manager Initials	3. Press "Cancel" when done Comments
			1								
	1.001	Employee pay, benefits, leave, he	alth, retirem <b>?</b> 15-Dec-2002	15-Dec-2002	CGM	17-Dec-2002	CGM	22-Dec-2002	CGM	CGM	Good Job!
►	1.002	Time and Attendance	? ?7-Dec-200?								
	1.003	Employee Training and Developm	ent Process ?								
		Office Communications	?								
	1.005	Computer Systems / Info Technol									
		Managing Resources	?								
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	2.002	Cert Phase II: Formal Application	Phase - (Ga ?								
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	Hire Date: 01-Dec-2 Position Number: 1144	Airworthiness	Office ID: Office Manager: Supervisor: OJT Instructor: or	CGM CGM			
	Course Number: 1001 Course Name New Employ Completed Date: 12-Dec- Total Tasks 182	F	Planned Level 1	Level 2	Level 3	Manager	To view entire comment 1. Click on desired Comment 2. Press "Shift F2" 3. Press "Cancel" when done
	Task Description           Task         Description           1.001         Employee pay, benefit	ts, leave, health, retirem ?15-	Date: Date I	Job Task List			
•	1.002 Time and Attendance		-Dec-200(				
	1.003 Employee Training and						
	1.004 Office Communication	is 🥐					
	1.005 Computer Systems / I	Info Technology ?					
	1.006 Managing Resources	?					
	1.007 Employee Ethics	?					
	1.008 Labor Unions	?					
	1.009 Conduct and Disciplin	ie <b>?</b>					
	1.010 Travel and Per Diem	?					
	1.011 Security	?					
	2.001 Cert Phase I: Preappli						
	2.002 Cert Phase II: Formal						
	2.003 Cert Phase III: Docum	ent Compliance Phase [?]					
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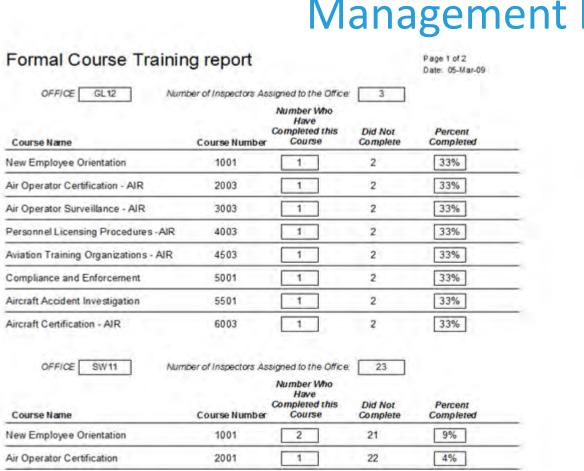


		yee Name: Double Dawg Dare Discipline: AIR Airworthines Hire Date: 01-Dec-2008 on Number: 1144	s	Office Mana	sor: CGM							
		Description: 06. AIR – Principa	al Avionics Inspector	OJT Instruc								
	Course N Complete Total Tas	ed Date: 12-Dec-2002	DD-MMM-YYYY Plann Dat		el 1 Initials	Leve Date	el 2 Initials	Leve Date	l 3 Initials	Manager	To view entire comment 1. Click on desired Comment 2. Press "Shift F2" 3. Press "Cancel" when done <b>Comments</b>	
ſ		Employee pay, benefits, leave, he	?	200/15 Doc 200	CCM	17-Dec-2002	COM	22-Dec-2002	CGM	CGM	Good Job!	
Þ		ime and Attendance	Partin, retirem P 15-Dec					2-Dec-2002	COIVI		Good Jobi	
_		Employee Training and Developm				]				]		
	1.004	Office Communications	?								OJT for each	
	1.005	Computer Systems / Info Technol	logy 🤶									100 183
	1.006	Anaging Resources	?									
	1.007 E	Employee Ethics	?									
	1.008 L	abor Unions	?									
-	1.009	Conduct and Discipline	?									
	1.010 T	ravel and Per Diem	?									
	1.011 5	Security	?									
_	2.001	Cert Phase I: Preapplication Phas	se - (Gate I) <b>?</b>									
	2.002	Cert Phase II: Formal Application	Phase - (Ga ?									
_	2 003 0	Cert Phase III: Document Compli	ance Phase [?]			I					I	1
			Save and Close		Ca	ancel						



	Employee Name: Double Dawg Dare Discipline: AIR Airworthiness Hire Date: 01-Dec-2008 Position Number: 1144 Position Description: 06. AIR – Principal Avionics Inspect	Office ID: GL12 Office Manager: CGM Supervisor: CGM OJT Instructor: CGM		
	Course Number: 1001 Course Name New Employee Orientation Completed Date: 12-Dec-2002 DD-MMM-YYYY Total Tasks 182 Task Description	Hyperlinks to the Job documents.	Task Analysis	o view entire comment Click on desired Comment Press "Shift F2" Press "Cancel" when done
	?			
	1.001 Employee pay, benefits, leave, health, retire m?15	Dec-200 CGM 17-Dec-2002	CGM 22-Dec-2002 CGM CGM	Good Job!
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_	1.003 Employee Training and Development Process ?			
	1.004 Office Communications ?			
	1.005 Computer Systems / Info Technology ?			
	1.006 Managing Resources [?]			
	1.007 Employee Ethics ?			
_	1.008 Labor Unions ?			
	1.009 Conduct and Discipline ?			
	1.010 Travel and Per Diem [?]			
	1.011 Security [?]			
	2.001 Cert Phase I: Preapplication Phase - (Gate ) ?			
	2.002 Cert Phase II: Formal Application Phase - (Ga?)			
	2 003 Cert Phase III: Document Compliance Phase 2			
	Save and Clo	Se Cancel	]	





### Management Reports





# **Training Record Software**

✤ Runs on Application or Training Record Software.

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- ✤ Includes both formal courses & OJT.
- ✤ Automated reports for managers.
- ✤ Provides 3 secure access levels.







# Any Question ? Module 10







# Module 11 Next Steps







### **Next Steps**

- Conduct internal audit of inspector training implementation at your CAA.
- 2. Create a plan to improve deficient areas.
- 3. Begin transition to ICBF.





# **Audit Review**

1) Are there any areas of inspector staffing and training that should be improved in order to comply with the ICAO SARPS?

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- Adequate personnel?
- ➤ Pay?
- Equipment?
- Formal Training Courses?
- ➤ OJT?
- Record keeping?





- 2) If your State implements the ICBF, will it make CAA fully ICAO compliant for inspector training?
  - What else is required?







- 3) What are the next steps that you might take to implement the ICBF at CAA?
  - ➤ Political Will?
  - Funding?
  - Technical Assistance?



# Implementing

- 1) Have Director General formally adopt the ICBF in writing.
- 2) Install the ICBF Training Record software.
- 3) Review existing training records.
- 4) Determine the prior training & qualification already completed for each inspector.

SAFETY





#### **One-Time Grandfather Rights**

#### **Formal Course**

We recommend that you show an existing inspector qualified for a Formal Course if:

- Has **2 years experience as an inspector**, and;
- Has completed a similar course that is at least
   50% of the hours required by ICBF.

If not: provide the training required by the ICBF system.





#### **One-Time Grandfather Rights**

#### Job Tasks

We recommend that you show an existing inspector qualified for a given Job Task if:

- Has **2 years experience as an inspector**, and;
- Has accomplished the job task at least 2 times.

If not: provide the training required by the ICBF system.



# **Course Objectives**

➔ Provides guidance for States to develop a training programme in compliance with ICAO requirements;

SAFFTY

- ✤ Provide States with the guidance to improve CE-4 effective implementation scoring by increasing the number of qualified inspectors;
- ✤ Improving the safety oversight function.



#### NO COUNTRY LEFT BEHIND SAFETY

