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MPL as a Regulation Keeping the End Goal in Mind

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### MPL as a Regulation

MPL symposium

#### Elements:

- What is MPL?
  - ICAO Definitions
  - Competency Matrix
- MPL Course Structure
- Etihad Airways MPL Program



## What is MPL?

MPL is competency based which utilizes specific Knowledge, Skills and prescribed Attitudes (KSA's) established through task analysis and applied through instructional design.  MPL training is dynamic rather than hoursprescriptive.
 It is based on training to the final competencies required to operate modern jet transport aircraft MPL SYMPOSIUM



MPL (Multi-crew Pilot License) was introduced by ICAO in 2006 as a **competency based training** program

- A modern approach to training which enhances safety and increase efficiency in Pilot Training
- Reverse-engineered, purpose built, custom training program for the airline operations
- ICAO Doc 9868 outlines the guidelines for implementing a MPL course, but each course is **unique** to the **airline training partner**
- The end result is a resilient, knowledgeable, professional type-rated Pilot who has been trained by not only FIs / TRIs, but also Instructors within the airline, from early on in the Cadet's training progress



Training and assessment that are characterized by a performance orientation, emphasis on standards of performance and their measurement, and the development of training to the specified performance standards.

ICAC

### **ICAO Pilot Competencies**

#### MPL SYMPOSIUM

Competency based training is NOT training and checking

- Assessing whether the trainee is where thye should be at that given time in the course
- Trainees do not need to be completely proficient until they reach the end
- The 9 ICAO pilot competencies (PC) are:
  - Application of Knowledge
  - Application of Procedures and Compliance with Regulations
  - Communication
  - Aeroplane Flight Path Management, automation
  - Aeroplane Flight Path Management, manual control
  - Leadership and Teamwork
  - Problem Solving and Decision Making
  - Situation Awareness and Management of Information
  - Workload Management





### MPL COURSE DESIGN

#### MPL SYMPOSIUM

Pilot Core Competency

#### •ICAO 9868

Nine core competencies (applicable to all pilots training) *E.g.: Aeroplane Flight Path Management, manual control*

#### Competency Units

By phases of flight (specific to MPL)
E.g.: Perform takeoff / Aircraft ground and pre-flight operations

Competency Elements

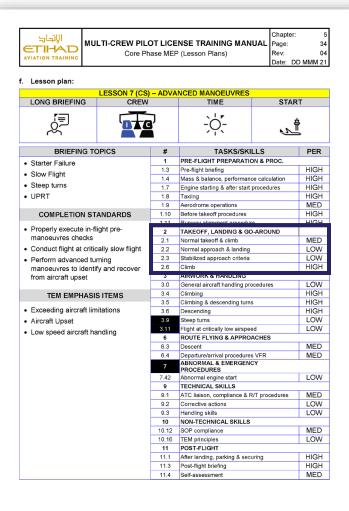
•ICAO 9868

#### •ICAO 9868

Specific to MPL competency units *E.g.: Perform takeoff roll / Perform engine start*

Task / Skills

•EAT developed •E.g.: Normal takeoff / Engine Start

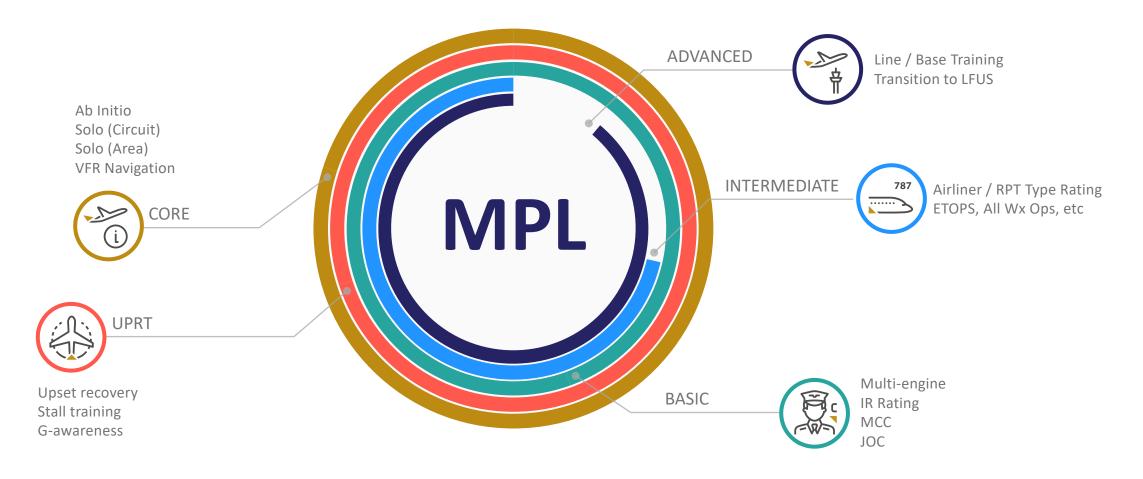




# MPL-I Training

### MPL vs ATPL

#### MPL symposium



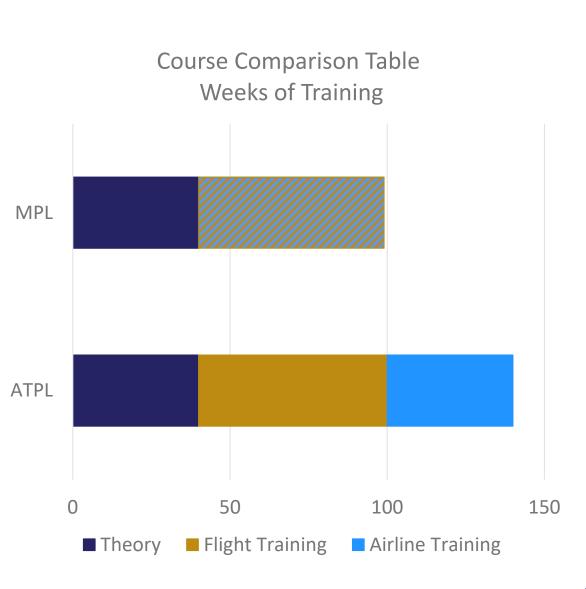


### **MPL** Today

MPL SYMPOSIUM

Developed 2002-2006

- ICAO FCL TP ICAO Doc 9868
- More efficient than previous methods of Instruction
- Focused training program reverse-engineered from Airliners (A320 / B787)
- Non-prescriptive method of training, equipment varies from jets to piston aircraft





Etihad Airways MPL Program MPL-I Training

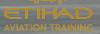
#### ETIHAD AIRWAYS CADETS

Etihad Aviation Training provides in-house ground and flight instruction for the Etihad Airways Multi-Crew Pilot License (MPL).

The first MPL training course was launched in 2014, further developed into a full Jet program in 2016 and at its latest revision in 2022.

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Successful cadets will be selected to fly for Etihad Airways on either the Airbus A320 or Boeing 787 fleet of aircraft and connect Abu Dhabi to multiple destinations around the world



### Etihad Airways Multi-crew Pilot License

#### MPL symposium

1 ATPL GROUND SCHOOL		2 COMMS TRAINING		3 BASIC FLYING COURSE		
Traditional ground school theory training for the issue of a professional pilot license		Communications training fo proper ICAO phraseology tl through practical applicatio	nrough briefings	The goal of the BFC is to teach basic pitch, attitude and power hand flying skills		
Classroom	805hrs	Comms Trainer	40hrs	The BFC is a strict and scripted course whi set's the tone of professionalism and self- evaluation of flight training		
				PFTD	7hr	





### Etihad Airways Multi-crew Pilot License

#### MPL symposium

1 CORE PHASE		2 BASIC PHASE		3 INTERMEDIATE PHASE		4 ADVANCED PHASE	
Multi-engine General Handling, SPIC, introduction Multi-crew & IFR and UPRT		Advanced Multi Crew Operations & IFR on Phenom 100E device		Introduction to advanced jet transport aircraft and airline specific procedures		LOFT, LFUS & Base Training preparation	
Aircraft (53.5 MEP, 3 UPRT)	56.5hrs	FNPT II	44hrs	FTD	70hrs	FTD	4hrs
FNPT II	<b>30.5</b> hrs			FFS	80hrs	FFS	44hrs





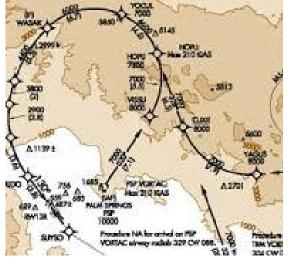
### **Threat and Error Management**

#### MPL SYMPOSIUM

Threat Error UA

- TEM is embedded within the MPL on each lesson and briefing
  - TEM Emphasis Items on the lesson plan
  - Departure and arrival briefings include TEM
- Develop cadet's problem identification and solving skills
- Continue to reinforce this philosophy which aids in decision making and leadership skills in time









### Regulation vs End Goal

#### MPL symposium

The current regulations from ICAO are not as descriptive as equivalent CPL or ATPL programs

The following needs to be considered when implementing MPL courses:

- To restrictive regulations will hinder the end goal
- No guidance will result in "shortcuts"
- Operators adapting existing programs to fit the MPL training

Etihad Aviation Training has successfully trained over 450 MPL cadet both under GCAA and EASA regulations since 2014.





Coming together is the beginning. Keeping together is progress. Working together is success.



Thank *You*