WORKSHOP – TRAINING & FLEET SAFETY

Eurocopter Dauphin Symposium 2012

thinking without limits

Singapore - October 5th & 6th, 2012
Worldwide Training Strategy

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Customer Proximity to Improve Safety
Training Deployment

- 23 Eurocopter approved Training Centres around the world
- 20 Simulators (+16 since 2008)
Marignane, France
ETS Company Overview

Main Eurocopter Training Centre
- PILOT COURSES
- TECHNICIAN COURSES (MECHANICS/AVIONICS)
- AERONAUTICAL EXPERTISE (ALL PERSONNEL)

Training Centre:
45,000 trainees rated in 50 years

Average course duration:
3 to 5 weeks

Flight training:
2,500 flight hours per year
More than 1,000 FULL autorotations per year

"The vertical lift to excellence"
Facilities

- 2 200 m² dedicated to practical training

- Maintenance riggs + Real helicopters:
  - EC120/ AS350/ AS355
  - AS365/ EC155
  - AS332 L1-L2/ EC225

- 32 classrooms

- Reception lounge

- Specific Campus restaurant
Training Offer – Pilot Courses

STANDARD COURSES: [FCL2]
- Type rating (Initial & Difference)
- Refresher (Rec-Emer)

Upon request, ETS is able to customize any courses

OPERATIONAL COURSES:
adapted to the customers requirements, i.e:
- Instrument Flight Rules (IFR)
- Specific Training
  - Search and Rescue (SAR)
  - HOIST
  - SLING
  - NVG
  - Deck landing
  - Crew Resources Management (CRM)

These courses can be completed either in Marignane or off-site at customer’s location
Training Offer – Technician Courses

STANDARD COURSES: [PART 147]
- Type rating (Initial & conversion)
- Familiarization (T4)

OPERATIONAL COURSES:
adapted to the customers requirements, i.e:
- Maintenance Check Flight
- Airframe Repair Course
- Mechanical Assembly
- Autopilot Hydraulic System
- Specific Avionics course
- Aircraft Basic Knowledge

Upon request, ETS is able to customize any courses

These courses can be completed either in Marignane or off-site at customer’s location
New EASA Regulation in 2013

New 1149/2011 Regulation put into force

AS365 N3
- T1 Mechanics Type Rating (Airframe)
  - 4 weeks → 5 weeks
- T2 Avionics Type Rating
  - 4 weeks → 5 weeks

OTHER AIRCRAFT
- To be applied until August 2013

Minimum of 50% practical tasks
Helicopter Landing Officer (HLO) Training

- Control the response to helideck routine operations & emergencies
- Virtual Mobile Simulation System
- Learning Management System
  - Computer Aided Instruction
  - HLO Quick References Handbook
- Training delivered on customer premises

“Maintain an efficient, productive & cost-effective helicopter operation”
ESEA Training Centre, Singapore
ESEA Training Centre Overview

Established in **2007**

- **7** Pilots & Simulator Flight Instructors
- **6** Technician Instructors

**Eurocopter Qualified** Instructors with strong helicopter background and individual expertise

More than **350** trainees qualified annually

**Full Capabilities** for AS365 & EC155 Pilot & Mechanics Type Rating and Refresher courses
Training Facilities

- 900 sqm dedicated for training activities
- 6 modular classrooms equipped with latest technology
- Eurocopter official CAI (Computer Aided Instruction) courseware
- Training Documentation: FLM, THB, THM.
- Briefing/debriefing rooms
- FFS AS365 N3 & FTD EC120
- Reception Lounge
AS365 N3/N3+ Full Flight Simulator
Main Features

- Full OEM Data-Package
- Full-scale replica of the Dauphin cockpit
- Extended Field of View 210° horizontal x 70° vertical
- Vibration & Sound systems
- 6-axis Motion system
- JAR FSTD Dual Qualification FFS Level B & FTD Level 3
- FAR Part 60 Level 6 Standards
- Advanced reconfigurable cockpit
- Conventional & Glass cockpit
- Latest avionics equipment
  - MFD 255 & APM 2010
- NVG compatible
- High definition visual database
  - IFR Jeppesen database
Cockpit Concept

- Full-scale replica of the AS365 N3 cockpit
- Overall cockpit equipment is simulated
- Easily reconfigurable cockpit
- 3 different configurations simulated
Conventional Cockpit Configuration

Configuration 1: Conventional Avionics + AP 155

AP 155 + CDV 155 + RDN 85 (4-axis with SAR modes)
Glass Cockpit Configuration

**Configuration 2:** New Avionics with MFD 255 + AP 155 + CDV 85 (3-axis)

**Configuration 2bis:** New Avionics with MFD 255 + APM 2010 (4-axis)
High Detailed Visual Database

- High definition & high detailed features
- Ability to re-locate and move objects
Unique opportunity to practice any of your civil or military missions in WET or DRY training:

- Type Rating
- Recurrent Emergency Procedures
- Line/Operational Proficiency Check (LPC/OPC)
- Instrument Flight Rules (IFR)
- Search And Rescue (SAR)
- Helideck, Oil Rig and Ship Landings
- Night Vision Goggles (NVG)
- Multi Crew Coordination (MCC)
- Confined Area, Hot & High Training
- Maintenance Check Pilot (MCP)
- Type Rating Instructor (TRI)

Flight Safety is our Top Priority
Training Recommendation

Refresher Course – Emergency Procedures VFR

- 12 hours per Crew (6 hours as Pilot In Command)
  - Emergency Day & Night
  - CAT A/B AEO & OEI procedures
  - Go around procedure
  - Circuit and landing AFCS off
  - Engine fire, landing gear malfunctions
  - Hydraulics, fuel system, gear box and tail rotor failures
  - Autorotation, ditching
  - Instrument and lighting failures
  - Engine GOV malfunctions

Refresher Course – Emergency Procedures + IFR

- 20 hours per Crew (10 hours as Pilot In Command)

Mission Training – SAR, NVG, MCC, MCP, LOFT

- Recommended program according to ESEA Course Matrix
Thank you for your attention

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