

UPRT OPERATOR CONVERSION COURSE

As of May 2016, EASA requires all operators to incorporate upset awareness, prevention and recovery (UPRT) into their pilot training programs. This document outlines the specific UPRT topics and elements necessary to be incorporated into the existing non-phased / operator conversion course training footprint imposed by ED Decision 2015/12/R.

Elevate your training.

OPERATOR CONVERSION COURSE & NON-PHASED RECURRENT

AERODYNAMICS

General aerodynamic characteristics

Aeroplane certification and limitations

Aerodynamics

Aeroplane performance

Angle of attack (AOA) and stall awareness

Stick shaker or other stall-warning device activation (as applicable)

Stick pusher (as applicable)

Mach effects (if applicable to the aeroplane type)

Aeroplane stability

Control surface fundamentals

Use of trims

Icing and contamination effects

Propeller slipstream (as applicable)

CAUSES OF AND CONTRIBUTING FACTORS TO UPSETS

Environmental

Pilot-induced

Mechanical (aeroplane systems)

SAFETY REVIEW OF ACCIDENTS AND INCIDENTS

Safety review of accidents and incidents relating to aeroplane upsets

G-LOAD AWARENESS AND MANAGEMENT

Positive / negative / increasing / decreasing g-loads

Lateral g awareness (sideslip)

g-load management

ENERGY MANAGEMENT

Kinetic energy vs potential energy vs chemical energy (power)

FLIGHT PATH MANAGEMENT

Relationship between pitch, power and performance

Performance and effects of differing power plants (if applicable)

Manual and automation inputs for guidance and control

Type-specific characteristics

Management of go-arounds from various stages during the approach

Automation management

Proper use of rudder

RECOGNITION

Type-specific examples of physiological, visual and instrument clues during upsets

Pitch / power / roll / yaw

Effective scanning (effective monitoring)

Type-specific stall protection systems and cues

Criteria for identifying stalls and upsets

SYSTEM MALFUNCTION

Flight control defects

Engine failure (partial or full)

Instrument failures

Loss of reliable airspeed

Automation failures

Stall protection system failures including icing alerting systems

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MANUAL HANDLING SKILLS

Flight at different speeds, including slow flight, and altitudes within the full normal flight envelope

Procedural instrument flying and manoeuvring including instrument departure and arrival

Visual approach

Go-arounds from various stages during the approach

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G-LOAD AWARENESS AND MANAGEMENT

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ADDITIONAL NON-PHASED ELEMENT

Recovery techniques

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Kinetic energy vs potential energy vs chemical energy (power)

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