



# EASA Workshop

## Sustainable Pilot Training

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# ISO 14001 & Sustainable Pilot Training

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EASP Environment Awareness Training

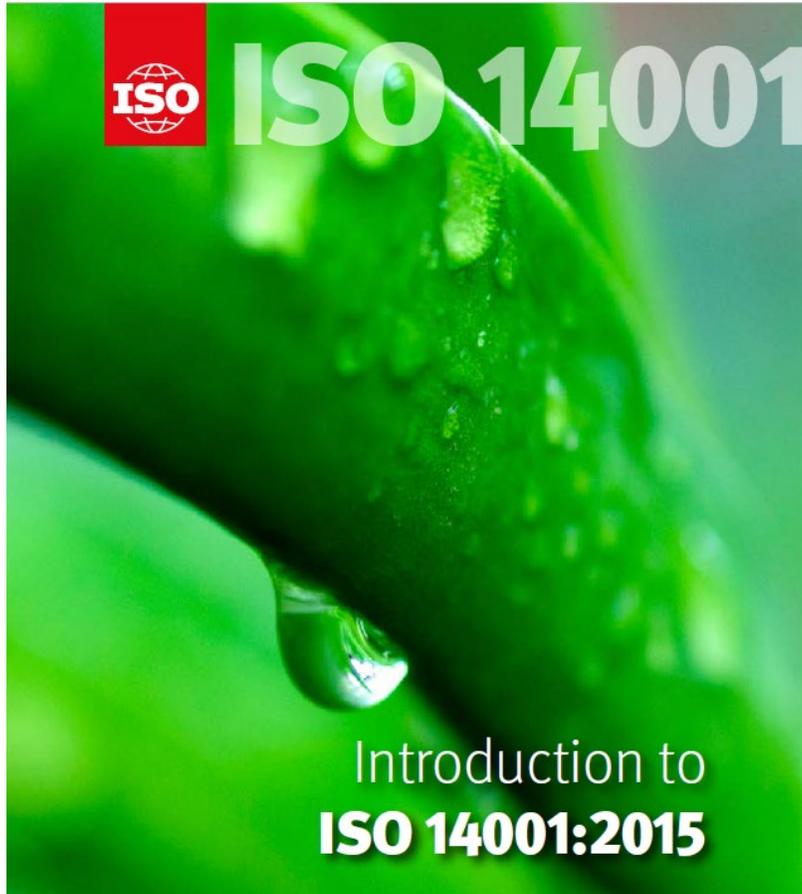
# Background - ATPG Eco Training Paper

- ATPG
- ATPG & EU Commission DG Move
- April 2018 Meeting
- Academic expertise
- Completion and delivery
- Mr Ky response

# ATPG Paper Aims & Objectives

- Mandatory environmental awareness training for all license syllabi, at all stages of the pilot career path.
- Re-balance training hours and training objectives of on-aircraft training versus use of FSTDs.
- Progressive deployment of distance learning systems with full credits applicable to license curricula.
- Emphasize how small individual behavioural changes can lead to big changes in system output.
- Identify areas in current syllabi that could quickly be adapted through additional AMC.
- Identify possible changes to IRs.

# International Organisation for Standardisation (ISO)



# International Organisation for Standardisation (ISO)

- Independent non-governmental international organisation
- Share Knowledge, develop voluntary, consensus-based, market relevant International Standards.
- Supports innovation and provides solutions to global challenges.
- ISOs generated by multiple entities - SMEs, international organisations, governments and NGOs, and ISO
- ISO Management System Standards (MSS) - Process driven continuous improvement led by management
  - Help orgs improve performance through compliance monitoring, corrective actions, improve procedures
  - Influences organizational culture to enable achievement of corporate and ISO objectives
  - Heightens employee awareness, management leadership and commitment
- Benefits of a generic MSS
  - More efficient use of resources and improved financial performance
  - Improved risk management and protection of people and the environment
  - Increased capability to deliver consistent and improved services
  - Increases value to customers and all other stakeholders

# What is ISO14001:2015

- Internationally agreed standard that sets out the requirements for an environmental management system
- Public awareness of the need to protect our environment impacting on next gen student pilots
- Aviation under pressure to minimize environmental footprint and promote sustainable development
- ISO 14001:
  - Helps organizations improve their environmental performance through
  - More efficient use of resources and reduction of waste
  - Identify, manage and control the activities that have an environmental impact.
  - Provides a competitive advantage in the marketplace and the trust of stakeholders

# ISO 14001: Adjacent ISOs

The ISO 14000 family comprises a number of standards that complement ISO 14001, some of which are listed below.

- I.S. EN ISO 14004:2016: Environmental management systems - General guidelines on implementation. Provides guidance on the establishment, implementation, maintenance and improvement of an environmental management system and its coordination with other management systems.
- I.S. EN ISO 14031:2013: Environmental management - Environmental Performance Evaluation – Guidelines for EPE
- ISO 14001:2015 A practical guide for SMEs: This guide aims to help small businesses understand the requirements of an environmental management system and to help them implement ISO 14001 successfully.
- ISO 14064-1 specifies principles and requirements at the organizational level for the quantification and reporting of greenhouse gas (GHG) emissions and removal.

# ISO 14001 & ORO/OR.A.Gen.200

ISO 14001:2015	ORO.Gen.200
<p>5.2 Environmental policy Top management shall establish, implement and maintain an environmental policy that, within the defined scope of its environmental management system</p>	<p>Requirements for safety policy and safety objectives contained in ORO.GEN.200 (a),(2) and AMC1 ORO.GEN.200(a)(2) Management system COMPLEX OPERATORS — SAFETY POLICY</p>
<p>5.3 Organizational roles, responsibilities and authorities Top management shall ensure that the responsibilities and authorities for relevant roles are assigned and communicated within the organization.</p>	<p>Organizational roles, responsibilities and authorities in ORO.GEN.200 (a),(1) and AMC1 ORO.GEN.200(a)(1) Management system COMPLEX OPERATORS - ORGANISATION AND ACCOUNTABILITIES</p>
<p>6.2 Environmental objectives and planning to achieve them</p>	<p>Requirements for safety policy and safety objectives contained in ORO.GEN.200</p>
<p>6.1 Actions to address risks and opportunities 6.1.1 The organization shall establish, implement and maintain the process(es) needed to meet requirements.</p>	<p>ORA.GEN.200 (a),(3) - the identification of aviation safety hazards entailed by the activities of the organisation, their evaluation and the management of associated risks, including taking actions to mitigate the risk and verify their effectiveness</p>

# Benefits of ISO 14001

Users of the standard have reported that ISO 14001 helps:

- Demonstrate compliance with current and future statutory and regulatory requirements
- Increase leadership involvement and engagement of employees
- Improve company reputation and the confidence of stakeholders through strategic communication
- Achieve strategic business aims by incorporating environmental issues into business management
- Encourage better environmental performance of suppliers. Integrating into the organization's processes
- Provide a competitive and financial advantage through improved efficiencies and reduced costs

# The Aviation Context

Two challenges facing the pilot training industry

- Incorporate ISO 14001 as is, into the ATO environment
  - Direct costs of certification
  - Increased complexity - additional regulations and standards to meet
  - Cost of re-certification
- Create ISO 14001 ATO
  - Airport and aircraft specific standards
  - Content of TK syllabi
  - Conduct of practical training
  - Creating environmentally aware next gen airline pilots

EASP Environment Awareness Training

# Call to Action

- ISO 14001 Gap analysis of typical ATO & report to EASA EASP
- Development of ATO specific appendix to ISO 14001