



FLYON AERO

AVIATION TRAINING CENTER

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By OXYGEN LABS Srl Unipersonale

SYLLABUS

Human Factors - 145.A.30(e) and AMC & GM - INITIAL

(FLY Course code: 001-C-I)

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Introduction

Human Factors covers a range of issues including the perceptual, physical and mental capabilities, the interaction and effects on individuals of their job and working environments. Objectives: understanding and identify the nature of Human Error; Reduce human error working under the stress and fatigue; Identify strategies for reducing Human Error; Adopt a non-punitive policy toward human error (not violations); Identify threats of repetitive tasks before they become errors, empowering the Visual inspection; control and implement correct communication within and between teams.

Summary

Course type	Classroom course
Target	<ul style="list-style-type: none"> • Accountable Managers • Management Personnel • Certifying Staff • Technicians • Quality Personnel • Competent Authority • Members Staff • Maintainer
Duration	2 days
Course location	FlyOn.Aero Aviation Training Center - Tortona
Language	Italian / English
Contents	<ul style="list-style-type: none"> • Introduction to EU 1321/2014 Part-145 • Introduction to "Human Factors" • Safety Culture / Organizational factors • Human Error • Human performances & limitations • Environment • Procedures, information, tools and practice • Communication • Teamwork • Professionalism and integrity • Organization's HF program
Exam	Yes
Certificate	FlyOn.Aero Certificate

Syllabus

0 Introduction to EU 1321/2014 Part-145

- Article 1 – Subject matter and scope
- Article 2 – Definitions
- Article 3 – Continuing airworthiness requirements
- Article 4 – Maintenance organisation approvals
- Article 5 – Certifying staff
- Article 6 – Training organisation requirements
- Article 7
- Article 8 – Entry into force
- Article 9 – Agency measures

ANNEX II (PART-145)

- 145.1 – General –

SECTION A – TECHNICAL REQUIREMENTS

- 145.A.10 – Scope –
- 145.A.15 – Application –
- 145.A.20 – Terms of approval –
- 145.A.25 – Facility requirements –
- 145.A.30 – Personnel requirements –
- 145.A.35 – Certifying staff and support staff –
- 145.A.40 – Equipment, tools and material –
- 145.A.42 – Acceptance of components –
- 145.A.45 – Maintenance data –
- 145.A.47 – Production planning –
- 145.A.48 – Performance of maintenance –
- 145.A.50 – Certification of maintenance –
- 145.A.55 – Maintenance and airworthiness review records –
- 145.A.60 – Occurrence reporting –
- 145.A.65 – Safety and quality policy, maintenance procedures and quality system –
- 145.A.70 – Maintenance organisation exposition –
- 145.A.75 – Privileges of the organisation –
- 145.A.80 – Limitations on the organisation –
- 145.A.85 – Changes to the organisation –
- 145.A.90 – Continued validity –
- 145.A.95 – Findings –

APPENDICES TO PART-145

- Part-145: Appendix I – Authorised Release Certificate – EASA Form 1
- Part-145: Appendix II – Class and Ratings System used for the Approval of Maintenance Organisations referred to in Annex I (Part-M) Subpart F and in Annex II (Part-145)
- Part-145: Appendix III – Maintenance Organisation Approval referred to in Annex II (Part-145) AMC to Appendix III – Maintenance Organisation Approval referred to in Annex II (Part-145)
- Part-145: Appendix IV – Conditions for the use of staff not qualified in accordance with Annex III (Part-66) referred to in points 145.A.30(i) 1 and 2

APPENDICES TO AMC TO PART-145

Appendix I to AMC 145.B.20(1) EASA Form 4

Appendix II to AMC 145.B.20(5) EASA form 6

Appendix III to AMC 145.A.15 EASA Form 2

Appendix IV to AMC 145.A.30(e) and 145.B.10(3) – Fuel Tank Safety Training

1 Introduction to “Human Factors”

1.1 Need to address human factors

1.2 Statistics

1.3 Incidents

2 Safety Culture / Organizational Factors discussion

3 Human Error

3.1 Error models and theories

3.2 Types of errors in maintenance tasks Type of slips in maintenance

3.3 Violations

3.4 Implications of errors Consequences of slip

3.5 Avoiding and managing errors

3.6 Human Reliability

4 Human Performance and Limitations

4.1 Vision

4.2 Hearing

4.3 Information-processing

4.4 Attention and perception

4.5 Situational awareness

4.6 Memory

4.7 Claustrophobia and Physical access

4.8 Motivation

4.9 Fitness/Health

4.10 Stress

4.11 Workload management

4.12 Fatigue

4.13 Alcohol, medication, drugs

4.14 Physical work

4.15 Repetitive tasks/complacency

5 Environment

- 5.1 Peer Pressure
- 5.2 Stressors
- 5.3 Time Pressure and deadlines
- 5.4 Workload
- 5.5 Shift Work
- 5.6 Noise and fumes
- 5.7 Illumination
- 5.8 Climate and temperature
- 5.9 Motion and vibration
- 5.10 Complex Systems
- 5.11 Hazards in the workplace
- 5.12 Lack of manpower
- 5.13 Distractions and interruption

6 Procedures, information, tools and practices

- 6.1 Visual inspection
- 6.2 Work Logging and recording
- 6.3 Procedure – practice/mismatch/norms
- 6.4 Technical documentation – access and quality

7 Communication

- 7.1 Shift/Task handover
- 7.2 Dissemination of information
- 7.3 Cultural differences

8 Teamwork

- 8.1 Responsibility
- 8.2 Management, supervision and leadership
- 8.3 Decision Making

9 Professionalism and integrity

- 9.1 Keeping up to date; currency
- 9.2 Error provoking behavior
- 9.3 Assertiveness

10 Organization's HF program

- 10.1 Reporting Errors
- 10.2 Disciplinary policy
- 10.3 Error investigation
- 10.4 Action to address problems
- 10.5 Feedback

11 Events HF occurred in the Organization (discussion)