



FLYON AERO

AVIATION TRAINING CENTER

www.flyon.aero

By OXYGEN LABS Srl Unipersonale

SYLLABUS

FLIGHT TEST PRINCIPLES AND PRACTICES

(FLY Course code: 014-C)

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Introduction

(insert here course introduction)

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	5 days
Course location	FlyOn.Aviation Training Center – Tortona
Language	Italian / English
Contents	<ul style="list-style-type: none"> • Performance estimation • Instrumentation • Load survey • Special Testing Problems • External equipment installation and their impact on performance • Avionic installation • Flight Test Planning and Implementation
Exam	Yes
Certificate	FlyOn.Aero Certificate

Syllabus

1. Introduction

Regulation: EASA NPA 2008-20

Flight Test Pilot requirement

Flight Test Engineer requirements

2. Performance Estimation

2.1 The Atmosphere

2.2 Air Data Measurements

2.3 Weight, Center of Gravity and Inertias

2.4 Aircraft Performance

Non-Steady State Performance

Propulsion-System Performance Corrections

2.5 Stability and Control Testing

2.6 In-flight Thrust Measurement

3. Instrumentation

Flight test performance measurement

4. Load survey

5. Special Testing Problems

Pressure Surveys

Icing

Flow Visualization

Spin Testing

6. External equipment installation and their impact on performance

Examples on rotary wings

Examples on fixed wings

7. Avionic Installation

Categories of Avionics

Avionics Flight Test Program

Examples of Avionic Equipment testing

Flight Test Instrumentation

8. Flight Test Planning and Implementation

Flight test Risk Analysis (methodologies and procedures)

Flight Conditions definitions

Flight Test reporting