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AVIATION TRAINING CENTER

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By OXYGEN LABS Srl Unipersonale

SYLLABUS

Electromagnetic Compatibility – EMC

(FLY Course code: 026-C)

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EMC

Days Theoretical	4
Days Pratical & Exercises	2

Course Overview

- Terminology
- Fundamentals of Electromagnetic Compatibility
 - Emissions/Compatibility
 - Immunity/Susceptibility
- Approaches for Electromagnetic Compatibility
 - Overview of MIL-STD-461F – an equipment level interface standard
 - Overview of MIL-STD-464C – a system level interface standard
 - Overview of MIL-STD-704 – a platform power quality standard
 - RTCA/DO-160E/F
- Equipment circuit design
- System installation design
- Aircraft arrangement and structure design
- Bonding and grounding
- Antenna to antenna coupling analysis
- Antenna placement considerations
- Aircraft EMC Regulatory Requirements
- EMC/EMI tests for Aerospace
 - Aircraft EMC Verification
 - Aircraft tests
 - System and equipment qualification
- EMC/HIRF effects on aircraft
- Lightning effects on aircraft
- HIRF/EMC test methods

Visit to EMC Laboratory (in Italy)