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MIL-STD-810H comprehensive knowledge training for Test Engineers and Facility Operators

AdvEnSys (Advanced Engineering Systems) introduction

AdvEnSys has been created with the target of offering to the technical community the extensive experience in Environmental testing and training of its management, by means of dedicated consultancy services in each of these areas.

AdvEnSys wants to fill the space that, in a defined period of a company business development process, may come up. AdvEnSys allows a company to fix a service or to solve a need that appears suddenly, in a quick and professional way by outsourcing it and, therefore, without investing in resources that later won't be required.

Jose Luis Lopez - Founder short profile



Aeronautical engineering background with 30 year experience in high added value products and solutions, into Iberian and International Markets. Main markets covered during his professional career are Industrial, Academic and Research Centers, Test Houses, Military, Aeronautic/aerospace and Automotive.

Direct training activities to companies or in collaboration with public and private organizations to provide Environmental Testing (vibration, climate, packaging...) training courses to multiple entities in Spain, Europe and Middle East.

Experience in Project Management and Technical Consultancy comprising all related aspects as required standards deep analysis, laboratory design, equipment market survey and technical-economical proposal evaluation, RFQ generation, project execution or Acceptance Testing Protocol (ATP's) writing and order fulfillment management.

Fields of expertise

AdvEnSys can provide the following training courses:

- Vibration. Basic concepts; vibration technologies; single axis or multi axis testing; shock, SRS, pyrotechnic.
- Climate. Temperature, humidity, corrosion, altitude, vacuum, solar radiation, HALT / HAST, ...
- Transport simulation Packaging testing, drop, compression, dangerous goods, environment data gathering
- Specific standards MIL-STD 810H; DEF-STAN 0035 Part 3; ECSS-E-10-03A; IEC 60068; NASA-STD-7003A, ...

Spanish Committee Member of the following International Technical Committees:

- IEC/TC 104.- Environmental Conditions classification and Methods of Test.
- ISO/TC 51.- Pallets for unit load method of material handling.
- ISO/TC 122.- Packaging.



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Course Overview

MIL-STD-810H Comprehensive Course for Test Engineers provides a detailed understanding of all test cases of MIL-STD-810H and the roles and responsibilities of Test Engineering planning and Execution and Design Considerations of a MIL-STD-810H program. This 7-day course (35 hours) covers a detailed look at MIL-STD-810H and how to plan and run a successful MIL-STD-810H program both at a planning and working level.



Key Course topics

- Planning, Execution, and Design Considerations of Mil-STD-810H.
- Deep understanding of all test cases, equipment used, and setup.
- Creation of test plan, test procedures, and reports.
- Strong understanding of testing methodology per MIL-STD-810H.



Contents

- 1. Introduction
- 2. MIL-STD-810H History
- 3. Overview of the Sections of the MIL-STD-810H
- Introduction to Part I of MIL-STD-810H 4.
- 5. Role of Test Engineers
- 6. Source documents for Test Engineers
 - a. From Project Managers
 - i. Concept of Operations (CONOPS); Testing and Validation Modes
 - ii. System Requirements Document Overview.
 - b. From EES
 - i. Environmental Engineering Management Plan
 - ii. Life cycle Environmental Profile
 - iii. Operational Environmental Documentation; Mission Profile Overview; Tailoring MIL-STD-810H based on your mission profile
 - iv. Environmental Issues and Criteria List (EICL)
 - c. From Design Engineers
 - i. Detailed Environmental Test Plan
 - ii. Environmental Effects and Failure Criteria
- 7. Laboratory test method guidelines
- 8. Environmental Test Reports
- 9. Analysis of results
- 10. Areas of occurrence of climatic categories
 - a. Summary of climatic conditions and daily cycles of temperature, solar radiation, and relative humidity
 - b. Summary of potential environments for the Storage, Transportation and Deployment
- 11. Planning for Execution of MIL-STD-810H
- 12. MIL-STD-810H Part II Overview
- 13. Detailed understanding for the test methods; Overview, setup, equipment used, execution and design considerations:



