

## MIL-STD-810H OVERVIEW EĞİTİMİ İÇERİĞİ

### Course Overview

- MIL-STD-810H Overview for Design and System Engineers provides the foundations and understanding of the environmental stress practices applied to systems that are deployed in military applications and insight into design practices to ensure consistency, robustness, and reliability of field deployed systems.
- This 2-day course covers an overview for MIL-STD-810H considerations for the design and ruggedization of systems deployed in harsh weather, vehicle, and combat environments by translating system requirements into design and test requirements.

### Key Course Take-Aways

- Planning and documentation to execute a MIL-STD-810H program.
- Understanding of the test cases and stresses that a system is subjected to in MIL-STD-810H.
- Understand the goals and function of design and system engineers.
- Learn how to establish metrics for tracking system performance to the test cases identified in MIL-STD-810H.

### Content

1. Introduction
2. Overview of the Sections of the MIL-STD-810H
3. Introduction to Part I of MIL-STD-810H
4. Role of System and Design Engineers
5. System Requirements Document Overview
6. System Engineering Management Plan
7. Process for System Requirements Decomposition
8. Environmental Engineering Management Plan
9. Environmental Issues and Criteria List (EICL)
10. Tailoring MIL-STD-810H based on your mission Profile
11. Detailed Environmental Test Plan Overview
12. Mission Profile Overview
13. Detailed Environmental Test Plan Creation
14. Testing and Validation Modes
15. Environmental Effects and Failure Criteria
16. Planning for Execution of MIL-STD-810H
17. MIL-STD-810H Part II Overview
18. Test Method 500.6 Low Pressure (Altitude) Overview
19. Test Method 501.7 High Temperature Overview
20. Test Methods 502.5 Low Temperature
21. Method 503.5 Temperature Shock
22. Test Method 504.2 Contamination by Fluids
23. Test Method 505.6 Solar Radiation (Sunshine)



24. Test Method 506.6 Rain
25. Test Method 507.6 Humidity
26. Test Method 508.7 Fungus
27. Test Method 509.6 Salt Fog
28. Test Method 510.6 Sand and Dust
29. Test Method 511.6 Explosive Atmosphere
30. Test Method 512.6 Immersion
31. Test Method 513.7 Acceleration
32. Test Method 514.7 Vibration
33. Test Method 516.7 Shock
34. Test Method 517.2 Pyroshock
35. Test Method 518.2 Acidic Atmosphere
36. Test Method 519.7 Gunfire Shock
37. Test Method 520.4 Temperature, Humidity, Vibration, and Altitude
38. Test Method 521.4 Icing/Freezing Rain
39. Test Method 522.2 Ballistic Shock
40. Test Method 523.4 Vibro-Acoustic/Temperature
41. Test Method 524.1 Freeze / Thaw
42. Test Method 525.1 Time Waveform Replication
43. Test Method 526.1 Rail Impact.
44. Test Method 527.1 Multi-Exciter
45. Test Method 528.1 Mechanical Vibrations of Shipboard Equipment (Type I – Environmental and Type II)