

INTRODUCTION

Design validation tests are performed to validate a product's design; as for design specifications, internal design or external standards, customer requirements, and product regulatory compliance testing. Test parameters and methodology are commonly derived from MIL, ASTM, ISO, ETSI, NEBS and IEC specifications are established by government agencies.

MDVT is generally comprised of dynamic (mechanical) and environmental tests, alongwith a combination of operational & non-operational tests with varying test parameters, carefully selected profiles to validate specific product design areas. MDVT is defined and performed based on a product's deployment (indoor v/s outdoor, mounting - Mobile / stationary), physical attributes (size, and weight), and industry needs (Automotive, Rail, Marine, Aero, Consumer goods, etc.).

Keeping this in mind, IMTMA has planned this program is aimed at covering Mechanical design validation and testing for Electrical, Electronic & Electro-Mechanical Systems.

FOCUS AREAS

- Test cases and related stress parameters, which need careful considerations during MDVT
- Temperature - How changes in temperature test a product's real life exposure and to evaluate component reliability
- Humidity - How exposure to various levels of humidity affects product performance
- Altitude - How higher elevations can create harmful stress on sealed components or product packaging
- Vibration - How products performs while undergoing various types of vibrations
- Shock - Effect of various types of shock needs to be evaluated
- Acoustic - Assure product meets end user's noise requirements by taking sound pressure and sound power measurements
- Airflow and thermal testing and analysis

KEY TAKE AWAYS

- Develop their knowledge in Mechanical design validation & testing
- Understand the fundamental concepts, most recent methodologies and contents of existing standards
- Understand test methods in the context of product validation
- Learn the benefits of product testing, validation and manage potential failure risks
- Participant profile
- Test engineers (Both in-house and customer representatives / witness)
- Experienced engineers and analysts in charge of Product validation activities
- Managers in charge of product validation teams and willing to improve their knowledge in product validation and the relevant processes
- Program managers who need to make critical decisions based on product validation results

FEE PER PARTICIPANT (PER LOGIN)

Rs. 5000/-

+18% GST

**IMTMA Members/ Micro Companies/ Individuals/
Educational Institutions / Students/ IMTMA Non
Members/ Others**

USD 150/-

Overseas Participants

Group Concession : 20% for 3 to 5 and 30% for 6 and more delegates being nominated from the same company

FACULTY

This Program will be conducted by **Mr. Sivanarul Selvan P.**

Mr Sivanarul Selvan P, is the well-known specialist consultant and Instructor in the RAMS Field, having a total of 30 years of experience, and served Multinational Companies and an entrepreneur. He is an Instrumentation & Control Engineer with CAD/CAM/CAE & Programming knowledge. He is practising RAMS for the last 15 years, and executed many Training Programs and Consultancy assignments to various Industrial verticals. He is specialized in RAMS, Reliability TEST methods & Plans, HALT, HASS & ALT, Physics of the failure, Design of Experiments, LEAN - Six Sigma.

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