



SIEMENS DIGITAL INDUSTRIES SOFTWARE

# Fundamentals of Environmental Vibration Test Master Class 2026

[Register Now](#)

Dayton T. Brown, Bohemia, NY August 4 – 6, 2026

## Topics

**Control Theory and Standards**

**Sine Control**

**Random Control**

**Response Limiting**

**Force Limiting**

**Combined Modes**

**Shaker Classic Shock**

**Shock Response Synthesis**

**Shaker SRS shock**

**Time Waveform Replication**

**Mission Synthesis**

## Fundamentals of Environmental Vibration Testing Masterclass

This 3-day in-depth master class focuses on the concepts and fundamental methodologies of environmental vibration testing on shakers. The course is aimed at **Aerospace, Aviation, Defense, Automotive, Electronics, Packaging, Marine, and other vibration testing professionals** who need to identify weaknesses in the design and performance of a product or qualify a product to certain specifications or operating environments.

Both inexperienced and seasoned professionals will benefit from this immersive hands-on class covering everything from fundamental concepts to comprehensive reviews of the most up-to-date best practices and methods in this field. While hands-on exercises utilize Siemens hardware and software, all principles and methodologies taught are platform-independent and directly applicable to any shaker control system on the market

## Participants will learn about fundamental topics such as:

- Vibration testing best practices
- Understanding Specifications
- Understanding an electrodynamic shaker
- Using Notching and Limiting for safer vibration testing
- Understanding Statistical Degrees-of-Freedom
- Demystifying Shock Response Spectrum and Pseudo Velocity
- Using Mission Synthesis to translate field data to a test specification

### Our Host

Dayton T. Brown, Inc. HQ  
1175 Church Street  
Bohemia, NY 11716  
Phone: 800.232.6300  
[www.dtb.com](http://www.dtb.com)



### Venue

DTB's 32-acre corporate campus in New York is home to the largest and most fully equipped independent engineering and test laboratory in the United States and serves as the headquarters for the Testing & Engineering and Technical Services divisions.

### Registration and Participation Fee

The registration participation fee for the 3-day Siemens master class is \$2,500 plus applicable taxes. Fee includes daily refreshments, lunch, networking social event, and all class material.

The number of participants is limited.

**Pre-approval is required for non-US citizens.**

### Contact

For more information, please contact

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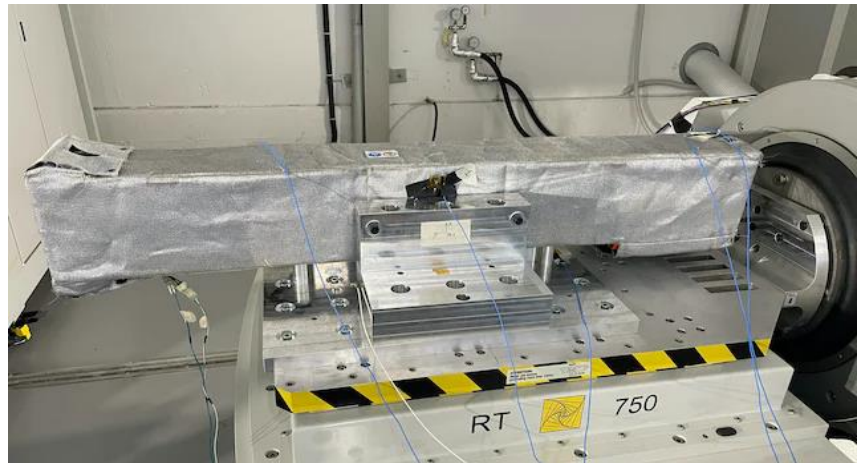
## BOOK YOUR SEAT HERE

### Fundamentals of Environmental Test MC

Dayton T. Brown, Inc.  
Bohemia, NY  
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This comprehensive class goes beyond basic **vibration control theory** to address the diverse needs and challenges faced by vibration testing professionals. The class is formatted for an **immersive hands-on** experience, enabling participants to prepare, set-up, and run tests and apply the methodologies discussed. **Real-life application examples** will be shared and demonstrated, providing practical insights into the implementation of advanced techniques in aerospace, aviation, defense, automotive, marine and other industries involved in environmental vibration testing.

Participants will walk away with significant hands-on experience and an understanding of how various controller parameters affect the quality of vibration tests; an opportunity often missed in today's fast-paced lab environments. The class is focused on forging new subject matter experts in shaker-based vibration testing and shaker controllers. Beginners will return to their labs qualified to independently run vibration tests campaigns. Seasoned professionals will return with the knowledge and confidence to become or reinforce their positions as team leaders.



### Guest Speakers and Networking Opportunities

To supplement the training experience, industry experts will relay their experiences with current, relatable technical topics and analysis techniques. Throughout each day, participants will have the opportunity to engage with speakers, ask questions, and network with speakers and other participants. A networking social event with dinner is also included with this course to facilitate building these professional relationships and exchange testing experiences and solutions.

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