HOBBS ENGINEERING | EDUCATION AND CONSULTING
a division of ESPEC North America

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2026 SEMINAR / WEBINAR SCHEDULE

LOCATION	DATES	COURSE TITLE	INSTRUCTOR
Webinar - 2 hrs ***Encore presentation***	February 2	Reliability Evaluation for SiC and GaN Power Devices Through Multiple Mechanism Models	Dr. Joseph Bernstein
Webinar - 3.5 hrs	February 4	Using Finite Element Analysis with Electronic Equipment: Thermal Cycling, Heat Transfer and Vibration Analysis	Steve Carlson
Webinar - 4 hrs	March 4	Reliability Physics: How to Field Reliable Products	Dr. Abhijit Dasgupta
Webinar - 3.5 hrs	March 18	Understanding Shock & Vibration	Dr. Alec Feinberg
Webinar - 3 hrs	April 8	Introduction to Repairable Systems Analysis and Modeling	Dr. Andre Kleyner
Webinar - 4 hrs ***2 hrs per/day***	April 14-15	Key Elements of Reliability Engineering	Aldo Fucinari
Webinar - 2 hrs	April 29	Printed Circuit Board Modeling: A Critical Step in Evaluating Electronic Assembly Reliability Through Accurate Material Properties	Jean-Baptiste Libot
Webinar - 3 hrs	May 13	Advanced Risk Mitigation using Design for Reliability (DfR)	Dr. Julio Pulido
Webinar - 4 hrs	June 17	Accelerated Test, Design & Analysis to Demonstrate Reliability	Dr. Alec Feinberg
Webinar - 3 hrs	June 24	Design for Reliability, from Design Assurance to Test Design and Execution for Field Validation	Dr. Julio Pulido
Webinar - 3 hrs	July 15	Structuring a Reliability Engineering Program and Introduction to HALT & HASS	Aldo Fucinari
Webinar - 3 hrs	August 5	Weibull Engineering Intro Using Weibull Plotting Software	Wes Fulton
Webinar - 4 hrs ***2 hrs per/day***	August 18-19	Physics of Failure, Electronic and Mechanical Failure Modes and Models	Dr. Alec Feinberg
Webinar - 4 hrs	September 2	Lead Free Solder Joint Reliability Basics	Dr. Jean Paul Clech
Webinar - 3 hrs	September 16	Preventing Thermal & Vibration Failures in Electronic Equipment Overview	Steve Carlson
Private Webinar - 16 hrs, 4 hrs each day	October 5-6 and 12-13 tbd	Combination Preventing Thermal & Vibration Failures and Cooling Techniques for Electronic Equipment 4 day webinar	Steve Carlson
Webinar - 3 hrs	October 7	Recent Advances in Design of Experiments	Dr. Doug Montgomery
Webinar - 3 hrs	October 21	AI for Reliability Engineering: LLMs, Agents and Practical Workflows	Dr. Rong Pan
Webinar - 2 hrs	November 4	HALT and HASS Design Margin Testing	Aldo Fucinari
Webinar - 3.5 hrs	November 18	Understanding Shock & Vibration	Dr. Alec Feinberg
Webinar - 3 hrs	December 2	Design for Reliability, from Design Assurance to Test Design and Execution for Field Validation	Dr. Julio Pulido

Webinars: 1 hr $125 2 hr $200, 3 hr $300, 3.5 hr $350 4 hr $400, 6 hr $600, 8 hr $800, 4-day (12 to 14 hrs) $950
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Contact us for prices on In-House seminars and private tailored webinars with your company
Prices listed are per person Group discounts available! Schedule and prices subject to change 9/9/2026

Hobbs Engineering offers many of our webinars as private sessions for your team. This allows you to speak freely about your products with the instructor. Some of our most popular courses include:

*Accelerated Test, Design and Analysis to Demonstrate Reliability by Dr. Alec Feinberg

This 4-hour course is designed to focus on all aspects of Accelerated Testing. We will first overview accelerated test historical models—for Temperature, Engelmaier Solder Joint Model, Vibration, Electromigration (Black Model, Silver migration), Capacitor-Voltage, Dielectric Breakdown, and General Power Law models. We will then discuss accelerated test planning. How do we know what test to do and at what stage to do them in a program plan? How to use a top-down FMEA as a program planning tool. We will introduce a stage gate approach. Test design by failure modes will be utilized in planning. We will also overview general qualification test planning including multi-accelerated test design to demonstrate one failure rate with confidence bonds and accelerated end-of-life reliability test planning. Included will be a "CALT" like method for environmental profiling so that one can profile a product's environment more accurately as field stress conditions vary.

*Preventing Thermal & Vibration Failures in Electronic Equipment Overview by Steven Carlson

• To understand how variations in coefficients of thermal expansion (CTE) can affect the magnitude of the displacements, forces, and stresses that are developed in electronic assemblies during thermal cycling environments and how these factors affect fatigue life.
• To understand how resonant conditions can affect dynamic displacements, forces and stresses in electronic assemblies during different sine and random vibration environments.
• To understand the concept of "damage accumulation" and how it can be used to determine the approximate fatigue life of various electronic assemblies due to different combinations of fatigue accumulated in thermal cycling and vibration environments.

*Structuring a Reliability Engineering Program and Introduction to HALT & HASS by Aldo Fucinari, DFSS BB, CRE

This 3-hour webinar will be a detailed discussion on what a reliability engineering program should entail and how to go forward setting one up. HALT (Highly Accelerated Life Tests) and HASS (Highly Accelerated Stress Screening) are heavily laced into the materials and the last hour of the webinar will serve as an introduction to HALT and HASS.

*Physics of Failure, Electronic and Mechanical Failure Modes and Models by Dr. Alec Feinberg

This 4-hour course is an in-depth approach to physics of failure. It is designed for the engineer who wants a good knowledge base including the state-of-the-art in this area. *In this course we approach the subject by dividing it up into two main sections:*

Mechanical Failure Modes & Models
IC & Electronic Failure Modes & Models

*Cooling Techniques for Electronic Equipment Overview by Steve Carlson

The purpose of this 3-hour webinar is to show designers and engineers an overview of the quick methods for designing electronic equipment to withstand severe thermal environments without failing. Techniques are presented which will permit the evaluation and design of cost effective, compact cooling systems, without the aid of a large digital computer. Learn simple design rules, and guidelines, which can improve the effective cooling of your sophisticated electronic components used in today's military, industrial and commercial electronic systems. Learn methods for determining thermal stresses in lead wires and solder joints due to a mismatch in thermal expansions.

*Understanding Shock and Vibration by Dr. Alec Feinberg

This 3.5-hour course will start with the basics, defining such terms as "G", "g", "GRMS" and "G-Force". We will explain the physics of shock and vibration in understandable terms. At the end of this course the student will be able to clearly understand shock and vibration, its terms, how tests are specified, and have the capability to apply software as a test aid. This course provides excel based software to aid the student in quickly learning shock and vibration fundamentals.

Please contact us for the group rates for these and other courses we have available. 303-655-3051
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