

Design of Experiments for Technicians Presented by the Southwest Center for Microsystems Education



Questions that will be answered during this webinar

- What can the Southwest Center for Microsystems Education (SCME) do for you?
- What is DOE and Why do we Experiment?
- Factors, Factor Levels, and Responses
- Full Factorial Design
- Main and Interaction Effects
- Plan / Do / Check/ Act (PDCA) Cycle

Why do you perform Design of Experiments (DOE)

- 1. Screening Factors
- 2. Process Characterization
- 3. Process Optimization

Elements of DOE

- 1. Factors
- 2. Factor Levels
- 3. Responses
- 4. Structure and Layout (Assumptions and Conditions)

Links and references from webinar

- SCME website: scme-nm.org
- List and descriptions of SCME Learning Modules
- List and descriptions of SCME Instructional Kits
- MicroElectroMechanical Systems (MEMS) Sandia National Laboratories
- YouTube Channel for SCME (17 animations and narrated videos)

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SCME Webinars (All recorded webinars are available.)

For information on the Fall 2011 – Spring 2012 webinars, click here For information on the Fall 2012 – Spring 2013 webinars, click here

^{*}Participant guides are available for free download at the links provided. Become a registered member of the SCME website and gain access to the Instructor guides (IG).