

## Advanced Workshop

### Overview

The advanced workshop is intended for those who have previously used SEER for Hardware, Electronics & Systems (SEER-H) to develop and evaluate estimates. This workshop is for students who are ready to move on to the next level in their usage of the SEER models to support their projects. Unlike the Core Workshop, the Advanced Workshop will cover more specialized topics, including:

- Power-user functions for the SEER expert
- Calibration, customization and integration features
- Project Management
- Estimating advanced technologies, including electro-optical sensors and integrated circuits
- Operations & Support cost estimation

### SEER for Hardware Advanced Course Outline

#### Day One

- I. Intro & Basics Concepts (Review)
- II. Using SEER-H (Review)
  - a. Files
  - b. Work Elements
  - c. Modifying the Work Breakdown Structure
  - d. Set Parameter Values
  - e. Charts, Reports, Tradeoff and Risk Analysis
  - f. *Core Review: Guided Exercises 1-5*
- III. Customization and Automation
  - a. Custom Knowledge Bases & *Guided Exercise #6: Custom Knowledge Bases*
  - b. Scenarios & *Guided Exercise #7: Develop a Scenario*
  - c. Server Mode & *Guided Exercise #8: Server Mode Scripts*

#### Day Two

- I. Operations and Support Estimation
  - a. Structured Case Study B: Operations & Support
- II. Advanced Calibration
  - a. Review K-Base and Parameter Calibration
  - b. Statistical Calibration Concepts
  - c. Developing Statistical Calibration Factors
  - d. *Guided Exercise #9: Calibration*
  - e. Applying Statistical Calibration Factors
- III. SEER-H EOS Lasers (SEER-EOS Plug-in)
- IV. SEER Compare Demo
- V. Cost IQ Demo
- VI. Summary