

Below is the training class outline for emPower™. To inquire about other NH Research, Inc. technical training schedules please contact us at [support@nhresearch.com](mailto:support@nhresearch.com). To see class agendas view the appropriate sections below.

## I. System Architecture

- a. S430 – DC-DC converters
- b. S440 – DC-DC and AC-DC converters
- c. S450 – DC-DC and AC-DC converters
- d. S650 – DC-DC and AC-DC converters
- e. 5500 – UPS Tester
- f. 5600 – DC-DC and AC-DC converters
- g. 5700 – Engineering Characterization System

## 2. Hardware

- a. EMS – S430 and S440
- b. DMS – 5500, 5600 and 5700
- c. DC Loads
  - i. 4100 – All systems
  - ii. 4110 – All systems
  - iii. 4200 – All systems
  - iv. 4700 – 5500, 5600 and 5700
- d. AC Loads
  - i. 4600 – 5500, 5600 and 5700
- e. DC Sources
  - i. 6010 – 10V/60A/400W – All systems
  - ii. 6060 – 60V/16A/400W – All systems
  - iii. 6080 – 80V/12A/400W – All systems
  - iv. 6400 – 400V 3A 400W – All systems
- f. AC Sources
  - i. 5400 – 700VA/500W/I phase – S440 only
  - ii. CI series sources – 5500, 5600 and 5700 Systems
- g. AC/DC Sources
  - i. 5100 – 5500, 5600 and 5700 Systems
  - ii. 5427 – 5500, 5600, 5700, S450, S650
  - iii. CI AC/DC source – 5500, 5600 and 5700 Systems

## 3. Software Architecture – All Systems

- a. Component Technology
  - i. Objects
  - ii. Interfaces
- b. emPower™
  - i. Utility
    - I. Options

## 2. Admin Controls

- a. Admin Controls – Create Users and Groups
- b. Distribute – Adding components to emPower™

## 3. Hardware

- a. Modify Configuration – Add or change hardware
- b. Modify Port Settings – Define ports and the on line status

## ii. Quality Monitor

- 1. Basic
- 2. Advanced

## iii. Control

- iv. Edit
- v. Test

## 4. Software Operation

- a. Installation
- b. Logging on and creating new users
- c. Configuring the hardware

## 5. Test Program Generation

- a. Defining Inputs
- b. Defining Outputs
- c. Defining Measurements
- d. Defining Digital Settings
- e. Defining Digital Measurements
- f. Standard Test Routines
- g. Program Sequencer

## 6. Write Program 1 – Demo-Program

## 7. Write Program 2 – DC-DC converter

## 8. Write Program 3 – AC-DC converter