

## **Distribution Overcurrent and Arc Flash Protection**

August 15 - 17, 2017

Denver, CO

### ***What is this course about?***

This course focuses on the application of protective devices for electric distribution systems including device coordination, reach, location, and selection, with the goal of maximizing system reliability. The training will utilize practical examples to reinforce the classroom concepts. UCS training is vendor-neutral and focused on the technical engineering protection issues, not any specific manufacturer's equipment or device. The course includes the following:

- Review of modern distribution system overcurrent protection and sectionalizing practices
- Overview of fault calculations, impedance, and the per-unit system
- The impact of system design, equipment selection, and protection practices

The Arc Flash Protection segment lays the groundwork for setting up effective arc flash safety practices and identifies gaps that might exist in programs already in place.

It is recommended for attendees to bring an engineering calculator to class. Smart phones with scientific calculator function would also serve this purpose.

### ***Who should attend?***

Distribution engineering and technical personnel of any experience level who desire to gain a better understanding of distribution system protection or need a review of protection and sectionalizing practices. Anyone seeking an overview of contemporary protection practices and a review of calculations used to compute fault currents and reliability impacts will find this course helpful.

### ***Continuing Education Credits***

Upon completion, attendees will receive a certificate for 17 Professional Development Hours (PDH). Professional engineers seeking continuing education credits should verify acceptance of this course with their state board.

### ***Instructor Bios:***

David Sanchez is a Consulting Engineer for UC Synergetic. David has 16 years of experience in the power delivery industry including maintenance, operations, power quality, distribution system planning, distribution design, protection, system analysis, construction standards, asset management, reliability, and joint use. David has worked for investor owned electric utilities and has been recognized, not only for his technical skills, but customer service as well. David is a graduate of New Mexico State University and holds a B.S. Degree in Electrical Engineering Technology.

Jerry Josken is a Senior Consultant for UC Synergetic. Jerry holds a BS in Electrical Engineering Technology from the Milwaukee School of Engineering and an MBA from North Central College. During his 30+ year career with Eaton's Cooper Power Systems Jerry has served as Test Engineer, Design Engineer, Distribution Protection Engineer and Field Application Engineer. Past leadership positions include Chair of IEEE Rural Electric Power Conference (2012) and GLEMS Distribution Equipment /Controls (2013-2014). Presently, Jerry coordinates UCS Training Programs.

### **Course Location**

The course will be held at the Holiday Inn Denver Lakewood

Holiday Inn Denver Lakewood  
7390 West Hampden at Wadsworth  
Lakewood, CO 80227  
Phone: 303-980-9200

### **Lodging**

Recommended hotels:

Holiday Inn Denver Lakewood  
7390 West Hampden at Wadsworth  
Lakewood, CO 80227  
Phone: 303-980-9200

### **Course Registration**

The course tuition is \$1495 per person. Tuition will include course materials, refreshments, and lunches all Tuesday and Wednesday. Any company with four or more attendees will save 25%. UC Synergetic clients are eligible for discounts. Contact Jerry Josken ([jjosken@ucseng.com](mailto:jjosken@ucseng.com)) to obtain the discount codes.

Hotel accommodations, transportation and other incidentals will be the student's responsibility.

Cancellations received after August 7, 2017 will receive a credit that can be used for tuition on a future UC Synergetic Course. The credit is good for one year and is transferable within the same company. In the unlikely case of course cancellation, UC Synergetic liability is limited to refund of the course registration fee only.

[Click here to register online](#) or complete the attached registration form.

For additional information about this course, other UCS course offerings, or on-site pricing, please contact Jerry Josken at (919) 348-3432 or via e-mail at: [jjosken@ucseng.com](mailto:jjosken@ucseng.com).



# Registration Form

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**Payment methods:**

**By check**, payable to **UC Synergetic, Inc.** Please attach check to the registration and mail to the address below.

--or--

**By credit card.** *An electronic invoice will be sent to you via email\*\*. This is a secure payment method through **PayPal**. It does not require a PayPal account.*

Circle one: Enclosed is a check for / Please charge my credit card for the following:

\_\_\_\_\_ persons at \$1495.00 per person, a total of \$\_\_\_\_\_

**Please Complete the Information Below:  
(attach additional sheets for multiple registrations)**

Name \_\_\_\_\_ Title \_\_\_\_\_

E-mail\*\*  
\_\_\_\_\_

\*\*Please provide email address if you would like confirmation of your registration or would like to pay online through PayPal.

Company: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**For payment by check, PO, or other questions regarding payment, please contact:**

**Gail Horne**  
UC Synergetic  
123 North White Street  
Fort Mills, SC29715  
Phone: (803) 835-7852  
Email: [ghorne@ucseng.com](mailto:ghorne@ucseng.com)