

# SCADA 101: FUNDAMENTALS WITH A FOCUS ON ENERGY MANAGEMENT SYSTEM (EMS)

February 4-5, 2021  
Online | Central Time



*"This course enabled me to have a high-level understanding of a complete SCADA system. This course really opened my eyes to all aspects of a SCADA system. It was a great course."*

Instructor at Century College

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SCADA systems are generally used to monitor and control equipment in industries such as telecommunications, water and waste control, energy, oil and gas refining, and transportation—mainly systems that are geographically wide-spread.

The course explores the evolution of SCADA systems, the differences in the SCADA types, and how they evolved from monolithic to distributed to networked. It will also explain the typical SCADA hardware components through different viewpoints and how they work together, including

- Hardware standpoint: administrator, data acquisition servers, and front-end processors redundancies
- Security standpoint: primary and backup systems
- Data maintenance standpoint: quality control system and production system



EUCI is authorized by IACET to offer 1.0 CEUs for the course

## LEARNING OUTCOMES

- Discuss the history and evolution of SCADA Systems
- Identify the basic hardware and software components of a SCADA system
- Examine communication protocols that are used to transmit, collect, store, and manage data
- Discuss the increase need for cyber security for ICS
- Describe different instrumentation measurement technologies
- Review SCADA system architecture
- Discuss the data flow from field to control room
- Identify alarm processing and supervisory control

## INSTRUCTOR

Ivana O'Deen, Principal Database Specialist, Xcel Energy

To Register Click Here, or

**Mail Directly To:**

PMA Conference Management  
405 Highview Rd  
Englewood NJ 07631  
201 871 0474  
Fax 253 663 7224  
register@pmaconference.com

# ONLINE DELIVERY & PARTICIPATION DETAILS

EUCI will use Microsoft Teams to facilitate participation in the upcoming event. Attendees do not need to have an existing Teams account to participate in the broadcast. The course will play in attendee's browser. When attendees sign on, their microphones are typically muted. Attendees should keep their mic muted until such time as it's needed to ask a question. During the event, participants will have the option of using a microphone to speak with the room and ask questions, or type in any questions via the chat window and our online administrator will relay your question to the instructor.

- Each attendee will receive an event invitation by e-mail, which will include one link to sign on for each half-day of the event (i.e., three links for a 1 1/2 day event). The appropriate link must be used to join each half-day event segment at the appropriate time.
- The remote meeting connection will open approximately 30 minutes before the start of the course. We encourage attendees to connect as early as possible in case of unforeseen problems.

**SCADA 101: FUNDAMENTALS WITH A FOCUS ON ENERGY MANAGEMENT SYSTEM (EMS) ONLINE COURSE**  
FEBRUARY 4-5, 2021: US \$1195 (Single Connection)

**PACK OF 5 CONNECTIONS:** US \$ 4,780 (20% Discount)

**PACK OF 10 CONNECTIONS:** US \$8,365 (30% Discount)

**PACK OF 20 CONNECTIONS:** US \$14,340 (40% Discount)

*Recording: Each event is recorded, and will be available for three business days. For registrants only.*

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name

Job Title

Company

Address

City

State/Province

Zip/Postal Code

Country

Phone

Email

**CREDIT CARD INFORMATION**

Name on Card

Billing Address

Account Number

Billing City

Billing State

Exp. Date

Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

Billing Zip Code/Postal Code

**OR** Enclosed is a check for \$ \_\_\_\_\_ to cover \_\_\_\_\_ registrations.

**Substitutions & Cancellations**

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before January 1, 2021 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices. EUCI reserves the right to alter this program without prior notice.

