

HVAC Controls Training

~~Sept 4-5, 2019- Wed-Thurs~~

NEW DATE'S Sept 25-26

7:30 am until 4:30 pm

Hilton Garden Inn

1741 Harrison St North

Twin Falls, ID 83301

Class is free for all Idaho Power customers

1.4 Continuing Education Units may be available for this training

Key Learning Objectives

- Identify the different features and configurations of basic HVAC systems
- Describe the three levels of facility controls and ways to control a local loop
- Assess system control strategies for energy conservation
- Describe EMS functions, controls, and techniques for air systems, package units, central refrigeration equipment, hot water boiler plants, and lighting system equip
- Explain how EMS network components integrate with control network technology
- Discuss the benefits of interoperability
- Assess the pros & cons of network architectures alternatives
- Define the concept of IDSM and describe demand-side management strategies that can be used for energy management systems
- Identify relevant Idaho Power programs that can help save energy and reduce costs

Who Should Attend

- Engineers, technicians, operators and maintenance professionals.
- Building owners, property managers
- Energy efficiency professionals and utility staff

Course Description: This seminar is for management, operations, and maintenance professionals with a basic understanding of HVAC systems. Learn about the potential operating cost-savings using Energy Management Systems, and how to maximize savings using the most current technology in HVAC control methods. Attendees will explore communication networks, equipment studies, conceptual system design, integrated demand side management, and cost/benefit analysis to help identify, design, and plan for your Energy Management Systems.

Agenda

7:30 Registration and breakfast

8:00 Day One-Morning Session

Defining Energy Mgmt. Systems
Why Might EMS be Cost Effective
Current EMS Market, What's New
Integrated Demand Side Mgmt. & EMS
Approaching the EMS Decisions

11:30 Lunch (provided)

12:30 Afternoon Session

Common HVAC Systems & Points of Control
Control Strategies Overview for Energy Conservation
Control Types & Evolution to Direct Digital
Control System Devices, Actuators, Valves, Dampers,
and Sensors
Control Techniques (PID)

4:30 Adjourn

7:30 Breakfast

8:00 Day Two Morning Session

EMS Functions, Optimization
Specific Levels of System Control for Central Plant Equip
EMS Case Study
EMS for Lighting Equipment & Systems Integration
Advanced EMS Strategies
Recommissioning

11:30 Lunch (provided)

12:30 Afternoon Session

Control Network Technology, Hardware & Software
Data Transmission Wired & Wireless
Network Topology & Architecture
Data transmission Devices
Systems Integration & Standards
BACNet Standard
JACE Controller
Connecting with the Internet
Data Visibility and Making an EMS Decision

4:30 Adjourn

Instructor: David M. Wylie, P.E. David has an engineering degree from Cal Poly San Luis Obispo and a MBA at National University. Since the early 1970s, David has been analyzing energy efficiency investments from both a mechanical and financial perspective. David and his two partners began working together in 1976 and founded the Engineering Management Consulting firm of ASW (now ASWB Engineering). The work experience covers the range of energy engineering including research, development, program design, measurement, feasibility study of electrical/mechanical systems and energy supply for commercial and industrial facilities. David, who holds a college teaching credential, teaches what he does and knows about, and has developed over 20 courses that address energy-efficient systems.

How to Register

Registration deadline is August 23rd, 2019

To register:

Phone, fax, email, or mail registration form below to:

Phone: 208-388-5099

Fax: 208-433-4752

Email: training@idahopower.com

Idaho Power

C/o Shawn Lovewell

1221 W. Idaho St.

Boise, ID 83702

Questions

Visit www.idahopower.com/training or contact Idaho Power at 208-388-5099 or training@idahopower.com

Registration Form – Please register me for the HVAC Controls training on September 4 & 5:

_____ First Name	_____ Last Name	_____ Title	_____ Phone/Fax
_____ Company Name	_____ Electric utility provider	_____ E-mail Address	
_____ Address			
_____ City State Zip			
<input type="checkbox"/> Vegetarian			
<input type="checkbox"/> Other _____			
Please indicate special diet needs			
CEU Type (if needed) _____			