

COURSE DESCRIPTION

EcoStruxure Power Monitoring Expert (PME) Administration and Maintenance

Overview

This training curriculum focuses on teaching students to manage and maintain their Power Monitoring Expert (PME) systems to best meet their needs. Students will begin by learning how to design PME systems and how the software is installed. Then, the students will proceed to commission a fresh PME system into a fully built, customized deployment of the software. The skills covered in this process will include adding meters, adding user accounts and managing system security, configuring hierarchies, and building custom graphics screens. The course will also cover integrating PME with 3rd party hardware, as well as database management, system maintenance, and disaster recovery.

Duration

4 Days (Monday – Thursday). Daily hours may vary, depending on Classroom vs. Remote delivery.

Who should attend?

This course is designed for anyone who is responsible for administering, maintaining, and/or supporting a PME system, such as system administrators (and possibly IT Admins), as well as advanced PME users.

Prerequisites

- ❑ A basic familiarity with using PME
- ❑ A reasonable understanding of Microsoft Windows operating systems
- ❑ A basic working knowledge of power and energy will be helpful

Students will be able to

- ❑ Understand key components of a PME system
- ❑ Understand and utilize system specifications to design a PME system
- ❑ Add meters and other hardware devices to the PME system
- ❑ Configure Logical Devices and Hierarchies to simplify data aggregation
- ❑ Design and build custom graphics screens
- ❑ Incorporate 3rd party devices into the PME software
- ❑ Understand database structures and modify default database maintenance tasks

Agenda

Day 1

Course Introduction

- Student and Instructor introductions and overview of course logistics
- Overview of course topics and agenda

Introduction to PME for Administrators

- Identify key administrative components of a PME system
- Explore different system architectures

Preparing to Commission a PME System

- Explore documentation resources available to help with building PME system
- Understand IT infrastructure requirements for PME to operate
- Understand required software versions and minimum system requirements

Installing PME Software

- Identify the steps the installer takes during the process of installing PME
- Explore the results of the installation (folder structure, user accounts, etc.)

PME System Security

- Overview of PME user accounts and permission levels
- Add user accounts to PME
- Integrate users through Active Directory
- Utilize Role Based Access Controls (RBAC) to manage users' access

Day 2

Management Console

- Add meters to PME via Management Console
- Add meters to PME via web-based Device Manager

- Add gateway hardware to PME
- Explore efficiency tools for building large systems

Logical Devices

- Understand use cases for Logical devices
- Build logical device types
- Add logical devices for WAGES meters

Hierarchies

- Understand use cases for Hierarchies
- Create a Hierarchy via the Hierarchy Manager
- View results of Hierarchy configuration in Reports, Trends, and Dashboards

Day 3

Vista Diagram Creation

- Explore the objects used to build diagrams in Vista
- Build a basic diagram based on an electrical one-line drawing
- Detail best practices of getting the most from Vista diagram creation

Integrating 3rd Party Hardware into PME

- Create custom device types using the Device Type Editor (DTE)
- Configure logging and calculation for custom device types
- Create and assign a customized diagram as the driver's default

Database Structure

- Understand the different databases in use by PME
- Locate and modify scheduled database maintenance tasks
- Relocate database backups to increase data reliability
- Tune system performance by modifying the log upload intervals for meters

Day 4

System Troubleshooting

- Explore Windows Services that support PME and their functions
- Explore the Diagnostics Viewer to troubleshoot communications and historical data performance
- Utilize the Diagnostics Utility to interface with Tech Support
- Explore Windows Services that support PME and their functions
- Explore the System Log to view PME software events

Disaster Recovery

- Outline best practices in developing a disaster recovery plan
- Highlight the essential components in creating a disaster recovery package

Course Summary

- Cover miscellaneous topics brought up during the course
- Answer any remaining questions
- Outline available resources for education going forward