



## EcoStruxure Power Monitoring Expert (PME) – Advanced Programmer Factory Course Details

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The following document provides an overview of the above-mentioned course offered by Schneider Electric's **Power Management University (PMU)**. For more details about all PMU courses such as availability, other courses options, and registration, please visit [www.pmutraining.com](http://www.pmutraining.com). Questions can be emailed directly to [pmu@se.com](mailto:pmu@se.com).

### Duration:

- 4 Days (Monday through Thursday)
- M – Th 9 AM – 3 PM CT

### Delivery Type:

- In Person (Nashville Training Center)
- Virtual Instructor Led (VILT)
- Onsite and/or custom training versions available by request

### Overview:

- This course focuses on system and device level customization using the *Designer* application in PME. Students will learn the architecture of ION meters and be guided through a series of lab activities to creating custom programs for equipment monitoring, alarming, and logging. The *Virtual ION Processor (VIP)* will be covered for programming Modbus meters and third-party equipment. Designer and Vista integration will be covered as well to show how programs can be used in PME's graphic screens. At the end of the course, students will have created multiple frameworks for integrating WAGES devices, control and process applications, logging, alarming, and custom calculations.

### Who should attend:

- This course is intended for meter/instrumentation technicians, system engineers, and system integrators who need to learn how to get the most out of their PME software and associated meters.



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### Prerequisites:

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

### Related Courses:

- PME Administration and Maintenance
- PME Deployment

### Upon Completion students will be able to:

- Describe ION architecture and ION module properties
- Examine configuration of meters installed in a PME system
- Understand the procedure to backup and restore a meter template
- Construct programs to perform custom calculations
- Describe how Designer and Vista work together
- Build programs for logging and alarming
- Construct programs for Advanced WAGES metering
- Build programs to read Modbus registers from one device to an ION meter
- Program process and control applications inside of an ION meter
- Understand the ION Reference document and how to use it
- Learn best practices for programming in Designer

### Daily Agenda:

Monday	Tuesday	Wednesday	Thursday
<ul style="list-style-type: none"><li>• Introductions</li><li>• ION Architecture and ION module properties</li><li>• Designer navigation and interface</li><li>• Backup and restore ION meters</li></ul>	<ul style="list-style-type: none"><li>• Vista and Designer integration</li><li>• Counter Module</li><li>• Arithmetic Module</li></ul>	<ul style="list-style-type: none"><li>• Clock Module</li><li>• Periodic Timer Module</li><li>• Data logging framework</li><li>• Setpoint Module</li></ul>	<ul style="list-style-type: none"><li>• Digital I/O</li><li>• Modbus Mastering</li><li>• Course Summary</li></ul>