

Yokogawa Plant Resource Manager (PRM)

COURSE CONTENT

GET IN TOUCH



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About Multisoft

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About Course

The Yokogawa Plant Resource Manager (PRM) Training by Multisoft Systems provides practical knowledge of managing intelligent field devices and plant assets within industrial automation environments. The course introduces participants to PRM configuration, device communication, asset monitoring, diagnostics, maintenance information, and integration with Yokogawa control systems. Through instructor-led sessions and practical scenarios, learners gain the skills to evaluate device conditions, identify maintenance requirements, troubleshoot common issues, and use centralized asset information to support reliable and efficient plant operations.

Module 1: Introduction to Yokogawa PRM and Plant Asset Management

- ✓ Introduction to Plant Resource Manager (PRM)
- ✓ Purpose of plant asset management
- ✓ Role of PRM in process industries
- ✓ Intelligent field devices and plant assets
- ✓ Asset lifecycle concepts
- ✓ PRM capabilities and application areas
- ✓ Benefits for instrumentation and maintenance teams
- ✓ Overview of PRM operational workflow

Module 2: PRM System Architecture and Components

- ✓ PRM system architecture
- ✓ Major PRM components
- ✓ Server and client environment
- ✓ PRM database concepts
- ✓ Communication architecture
- ✓ Device information flow
- ✓ Engineering and maintenance environment
- ✓ System connectivity concepts
- ✓ Overview of supported field device environments

Module 3: PRM Installation, Configuration, and System Environment

- ✓ PRM system requirements overview
- ✓ Installation architecture considerations
- ✓ Initial system configuration
- ✓ PRM client and server configuration concepts
- ✓ User environment setup
- ✓ System access and navigation
- ✓ User and security considerations
- ✓ Database and system configuration overview
- ✓ Basic system verification
- ✓ Configuration considerations for plant environments

Module 4: Device Integration and Device Management

- ✓ Introduction to device integration
- ✓ Registering field devices in PRM
- ✓ Device identification and information
- ✓ Device communication concepts
- ✓ Device type information
- ✓ Device configuration data
- ✓ Integration of intelligent field instruments
- ✓ Device information synchronization
- ✓ Device replacement considerations
- ✓ Managing device-related information
- ✓ Device lifecycle management concepts

Module 5: Device Navigator and Asset Organization

- ✓ Introduction to Device Navigator
- ✓ Navigating plant assets
- ✓ Understanding device hierarchy
- ✓ Organizing devices by plant structure
- ✓ Viewing registered devices
- ✓ Searching and locating devices
- ✓ Device status visualization
- ✓ Accessing device information
- ✓ Asset grouping concepts
- ✓ Working with device-related views
- ✓ Efficient navigation in large plant environments

Module 6: Device Monitoring, Parameters, and Diagnostics

- ✓ Device condition monitoring
- ✓ Understanding device status
- ✓ Accessing device parameters
- ✓ Reading process and diagnostic information
- ✓ Device health information
- ✓ Diagnostic message interpretation
- ✓ Abnormal device condition identification
- ✓ Parameter comparison concepts
- ✓ Monitoring device changes
- ✓ Diagnostic data utilization
- ✓ Condition-based maintenance concepts

- ✓ Using diagnostic information for maintenance decisions

Module 7: Field Device Configuration and Maintenance

- ✓ Field device configuration concepts
- ✓ Viewing and managing device parameters
- ✓ Parameter modification workflow
- ✓ Device adjustment and maintenance activities
- ✓ Maintenance information management
- ✓ Device inspection concepts
- ✓ Recording maintenance-related information
- ✓ Device replacement workflow
- ✓ Configuration verification
- ✓ Maintenance history concepts
- ✓ Supporting preventive and predictive maintenance
- ✓ Good practices for field device maintenance

Module 8: Alarm, Event, and Status Management

- ✓ Understanding device alarms
- ✓ Device event information
- ✓ Status indication concepts
- ✓ Alarm classification and interpretation
- ✓ Reviewing abnormal conditions
- ✓ Event history
- ✓ Identifying recurring device issues
- ✓ Using alarm information for troubleshooting

- ✓ Maintenance response to device alerts
- ✓ Alarm and event analysis considerations

Module 9: PRM Integration with CENTUM VP and Field Networks

- ✓ PRM within Yokogawa automation environments
- ✓ Overview of PRM and CENTUM VP interaction
- ✓ Device information exchange concepts
- ✓ Integration considerations
- ✓ Field communication architecture
- ✓ HART communication concepts
- ✓ FOUNDATION Fieldbus device environment
- ✓ Field device connectivity
- ✓ Communication paths between systems and devices
- ✓ Accessing asset information within an integrated environment
- ✓ Integration considerations for plant maintenance
- ✓ Data availability across automation and asset management systems

Module 10: Advanced Diagnostics, Maintenance Support, and Troubleshooting

- ✓ Advanced device diagnostic concepts
- ✓ Analyzing device health conditions
- ✓ Identifying communication issues
- ✓ Device communication troubleshooting

- ✓ Investigating abnormal device behavior
- ✓ Parameter-related troubleshooting
- ✓ Reviewing alarms and historical information
- ✓ Maintenance prioritization using device condition
- ✓ Common PRM operational issues
- ✓ Systematic troubleshooting approach
- ✓ Maintenance optimization concepts
- ✓ Improving asset reliability through diagnostic information

Module 11: Practical Exercises and Plant Maintenance Scenarios

- ✓ Navigating the PRM environment
- ✓ Locating and reviewing plant devices
- ✓ Examining device information
- ✓ Reviewing device parameters
- ✓ Monitoring device condition
- ✓ Interpreting diagnostic messages
- ✓ Identifying abnormal device status
- ✓ Reviewing alarms and events
- ✓ Performing device maintenance workflow exercises
- ✓ Investigating communication problems
- ✓ Analyzing typical field device issues
- ✓ Device replacement scenario
- ✓ Maintenance decision-making scenario
- ✓ Integrated PRM and plant automation scenario

- ✓ Recommended operational and maintenance practices