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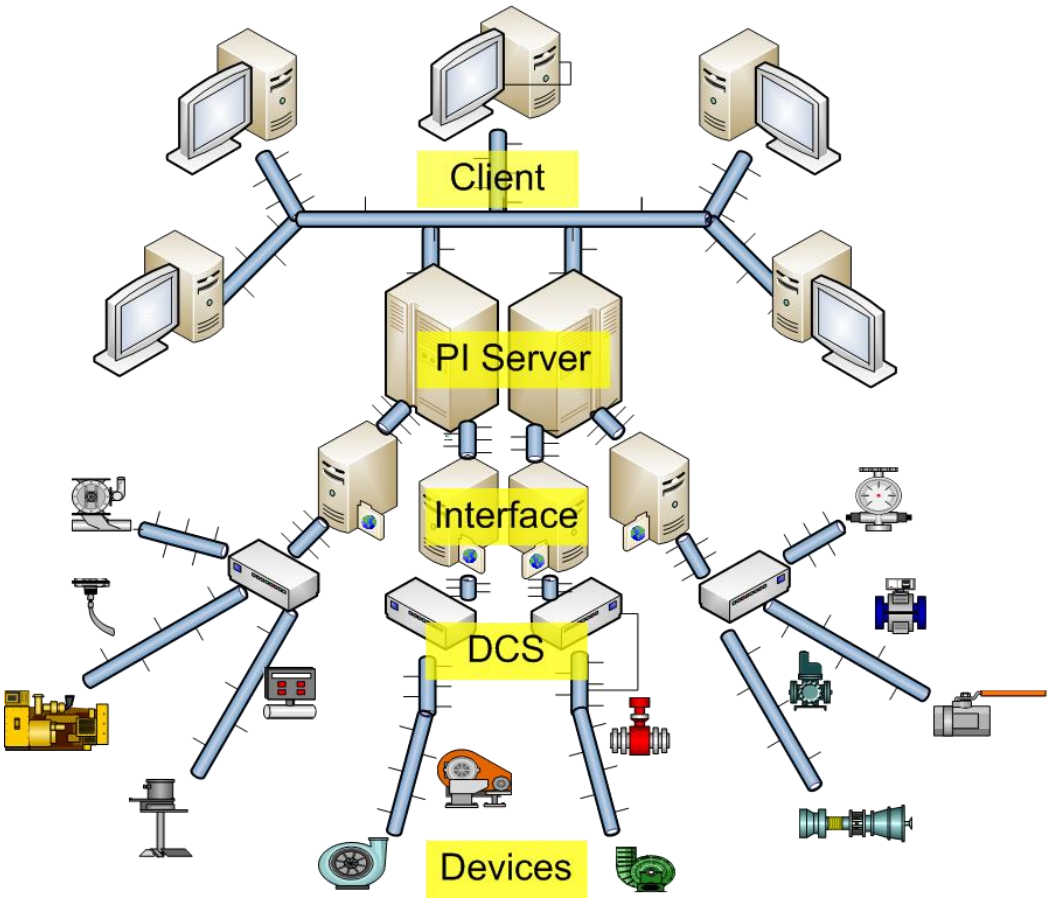

Cisco OSI Soft PI System

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Cisco OSI Soft PI System Administrator

- **Course Overview:**

The PI System Administration for IT Professionals class is designed for the Information Technology Professional who is tasked with maintaining the PI System. This class will concentrate on the server side of the PI System, and it will provide you with a working knowledge of the tasks required to maintain a PI System and support the technical needs of its users. It covers the utilities provided with the PI System, as well as tag and system configuration. This class covers common management tasks, understanding the data flow, and troubleshooting procedures.

- **Course Outline:**

PI System Basics

- Understanding important IT Concepts
- What is a PI System?
- A typical PI System architecture
- Understanding PI Points
- Directed Activity – Search for PI Points using SMT
- Using the Tag Search
- Solo Exercise – Use the Tag Search
- Directed Activity – View PI Point data using PI Vision
- Writing Time in the PI System

Interface Management

- A note on PI Connectors
- Define the role of a PI Interface
- Solo Exercise – Choose a PI Interface
- Common PI Interfaces
- Define the components of a PI Interface
- Define the PI Interface Configuration Utility
- Directed Activity – Manage an existing PI Interface with the PI ICU
- Define the relationship between PI Point Attributes and PI Interface configuration
- PI Interface installation methodology
- Group Questions – PI Interface architecture
- Install and configure a PI Interface for OPC DA
- Configuring a reliable PI Interface

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- Group Questions – Preventing data loss
- Defining the PI Buffer Subsystem
- Monitor the health of the PI Interface

Data Archive Management

- Define the role of the Data Archive
- Describe the Data Archive subsystems
- Data Flow through the Data Archive
- Understanding Exception and Compression
- Data Archive Files
- Managing Archive Files
- Manage Tuning Parameters
- Manage Data Archive Backups

Asset Framework Management

- Define the role of the Asset Framework
- Define assets and attributes
- PI System Explorer
- Directed Activity – Organizing your PI Points into AF Assets
- Solo Exercise – Building Assets from Templates using PI Builder
- Directed Activity – Take advantage of your asset model in PI Vision
- Components of a Asset Framework
- Data Flow when using the Asset Framework
- AF architecture
- Manage Asset Framework Backups

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PI System Security Management

- Securing a PI System
- Describe the ports used for PI System communication
- Authentication vs. Authorization
- Data Archive Security
- Asset Framework Security

Introducing PI Connectors

- Define the role of a PI Connector
- Differences between PI Interfaces and PI Connectors

- Directed Activity – Explore available PI Connectors
- PI Connector installation methodology

Monitoring a PI System

- Monitoring Tools
- Group Questions – What do I need to monitor?
- Stale and Bad Points

Troubleshooting a PI System

- Message Logs
- Where to look for answers
- Group Exercise – Troubleshoot a PI System

Prerequisites:

- Basic Windows and Network security (why you log in, what is a domain, etc)
- Basic directory navigation and management (using Windows Explorer, creating and finding files)
- Some familiarity with your real time data sources (control systems, PLCs, OPC)

Who can Attend:

- Typical IT professional, with responsibilities to maintain the uptime of the PI System.
- Need to know what the application platforms are for the PI System servers.
- Need to know what the data pipes look like coming into and going out of the PI System. This includes protocols, ports, and mechanisms used. I need to know what tools are available to monitor the PI System health, and what tools and methods are normally used in troubleshooting.
- Need to know what are and how to perform routine maintenance tasks like backup and security.

Number of Hours: 50hrs

Key Features:

- One to One Training

- Online Training
- Fastrack & Normal Track
- Resume Modification
- Mock Interviews
- Video Tutorials
- Materials
- Real Time Projects
- Virtual Live Experience
- Preparing for Certification

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