

To enroll in WDPF courses or for more information, please call:
800-445-9723 or 412-963-3900

WDPF WESStation Level 8.6

Operator Curriculum

- WOP WESStation Operator (on request)

Optional

- USU-8.6 Standard User Upgrade-WESStation (on request)

Engineer Curriculum

- WSU-8.6 WESStation Software Users
- WHM-8.6 WESStation Hardware Maintenance

Optional

- USU-8.6 Standard User Upgrade to WESStation DEH MOD III System (on request)
- ADM 8.6 WESStation System Administrator
- WHL-8.6 WESStation Historian and Log Server
- NWK WESStation Networking (on request)
- WAG WESStation Advanced Graphics (on request)
- WAC/ADC Advanced Control (on request)
- WTS WESStation Troubleshooting (on request)

I&C Technician Curriculum

- WSM-8.6 WESStation Software Maintenance
- WHM-8.6 WESStation Hardware Maintenance

Optional

- WTS WESStation Troubleshooting (on request)

System Administrator Curriculum

- WSU-8.6 WESStation Software Users
- ADM 8.6 WESStation System Administrator
- WAG WESStation Advanced Graphics (on request)
- WHM-8.6 WESStation Hardware Maintenance
- WTS WESStation Troubleshooting (on request)
- WHL-8.6 WESStation Historian and Log Server

Optional

- USU-8.6 Standard User Upgrade to WESStation (on request)
- NWK WESStation Networking (on request)
- WAC/ADC Advanced Control

WDPF Classic Courses

Engineer Curriculum

- SYS WDPF System User (on request) or SYM WDPF System Maintenance (on request)
- 7LM WDPF Level 7 Maintenance (on request)

Optional

- PCH WDPF PC on the Highway (on request)

I&C Technician Curriculum

- SYM WDPF System Maintenance (on request)
- 7LM WDPF Level 7 Maintenance (on request)

Optional

- PCH WDPF PC on the Highway (on request)

System Administrator Curriculum

- SYS WDPF System User (on request)
- 7LM WDPF Level 7 Maintenance (on request)

Optional

- PCH WDPF PC on the Highway (on request)

WESStation Software User

Course WSU - 8.6

Overview

This 3-week course presents the general use and functions of various drops in the WDPF system and is for the engineer who is responsible for the generation and modification of WDPF WESStation application programs. The Software Server and Engineer Workstation (EWS) will be used to build process diagrams, database, and modulating and digital control. The student will build all programs necessary to implement and control a simulated or actual process. This course may also be taken in place of the WSM 8.6 (WESStation Software Maintenance) course as a prerequisite to the WHM-8.6 (WESStation Hardware Maintenance) course.

Prerequisites

A basic background in modulating and logic control and in digital computer techniques is recommended. Prior completion of WOP (WESStation Operator) course is helpful.

Topics

- Use the WESStation Operator Station to Monitor and Control Process Variables
- Use the WESStation Software Server and Engineer Workstation to Perform all Basic Engineering Functions.
- Navigate the File Structure and Sign Out and Edit Text Files
- Create and Modify Custom Graphics
- Create a DPU Database
- Manage the System Point Directory
- Create and Modify DPU Control Programs
- Link Control Schemes to Custom Graphics
- Create and Modify Custom Menus
- Modify and Maintain Project Files for the System
- Download Configured Software to Applicable Drops

Price/Location/Start Date:

Call to Discuss

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WDPF® The WEStation workstation courses are 8.6 level training designed for the latest WDPF® software. In addition, several listed courses provide training for earlier versions of the WDPF system. Among these Classic WDPF courses include WDPF System User, WDPF System Maintenance, and WDPF 7-Level Maintenance. These courses are taught using Classic consoles that run the iRMX operating system.

WEStation Software Maintenance

Course WSM - 8.6

Overview

This 2-week course is for the technician who is responsible for software maintenance and for modifying the WDPF WEStation system. The course describes the general use and functions of various WDPF system drops and emphasizes how to isolate software problems and make system changes. Students use the Software Server and Engineer Workstation to modify process diagrams, the DPU database, analog and digital control and to edit necessary programs to implement and control a simulated or actual process.

Prerequisites

A basic background in modulating and logic control and in digital computer techniques is required. Prior completion of WOP (WEStation Operator) is helpful.

Topics

- Use the WEStation Operator Station Programs to Monitor and/or Control a Process
- Navigate the File Structure, Sign Out and Edit Text Files
- Modify Process Graphics
- Save and Load DPU Memory
- Maintain the System Point Directory
- Modify Control Schemes
- Modify and Maintain Project Files for the System
- Download Configured Software to Applicable Drops

Price/Location/Start Date:

Call to Discuss

WEStation Hardware Maintenance

Course WHM - 8.6

Overview

This 2-week course is for the electrical engineer, electronics technician or competent individual with an electronics background. The course is based on WDPF WEStation 8.6 level software and describes the theory and operation of the WEStation drop elements and how they interact to perform primary drop functions. Students learn a logical approach to diagnosing and isolating faults to the card level, and will troubleshoot actual hardware and software problems. Hands-on labs cover cleaning, adjusting and testing standard system peripherals.

Prerequisites

Prior completion of WSU (WEStation Software User course) or WSM (WEStation Maintenance Course) is required.

Topics

- Explain the Operation of the Data Highway Controller
- Isolate Card Failures and Configure a Replacement Card
- Make all Necessary Measurements and Adjustments to the Standard Peripheral Devices
- Perform Required Preventative Maintenance
- Explain the Operation of the Information Highway
- Distinguish Between Hardware/Software Problems
- Troubleshoot a WEStation System
- Load and Configure the WDPF System

Price/Location/Start Date:

Call to Discuss

WEStation Historian & Log Server

Course WHL - 8.6

Overview

This 5-day course is for those who will set up and maintain the WEStation Historian and Log Server drops.

Prerequisites

Prior completion of WSU (WEStation Software User course) or WSM (WEStation Maintenance course) is required. Knowledge of Applix, UNIX and Open Windows is strongly recommended.

Topics

- Create and Customize Historical Trends
- Define and Configure Historical Subsystems
- Build and Modify the Historian Database
- Define/Config. Secondary & Tertiary Devices
- Utilize Applix to Build Custom Reports
- Configure Single and Batch Reports
- Configure the Log Server
- Configure the Base Alarm System

Price/Location/Start Date:

Call to Discuss



WEStation System Administrator**Course ADM - 8.6****Overview**

This 5-day course is for the individual who has responsibility for administering the WDPF WEStation system. The course emphasizes overall system loading and backup. Students will load Solaris 2.5, install WDPF WEStation 8.6 release software, use standard WDPF 8.6 configuration tools and will install Solaris 2.5 patches and third party software. The student will configure systems for alarm printers, color printers, touch screens, membrane keyboards. On completion of the course, the student will be able to configure several WEStation drops and will be able to back up the WEStation system.

Prerequisites

Prior completion of WSU-8.6 (WEStation Software User) or WSM-8.6 (WEStation Software Maintenance) is required. Basic Solaris and UNIX knowledge is beneficial.

Topics

- Load, Back Up/Maintain a WEStation System
- Load Third-Party Packages on a WEStation System
- Add System Users and Assign Passwords
- Install Peripheral Devices on WEStations
- Define, Install and Download Drop-Specific Configurations
- Mount File Systems on the Software Server

Price/Location/Start Date:

Call to Discuss

WEStation Advanced Graphics**Course WAG****Overview**

This 5-day course is intended for the engineer who requires advanced graphic design and generation techniques. It describes graphic commands used to build diagrams that provide online interface to other drops on the WDPF Data Highway. Key topics include advanced graphic commands including: pointers, memory segments, application programs, Open Look commands and conditional display items. These commands are used in conjunction with basic graphic commands.

Prerequisites

Prior completion of WSU (WEStation Software User) or WSM (WEStation Software Maintenance) is required.

Topics

- Use Advanced Graphics Commands to Build Graphics to Interface with Other Drops
- Use General Message Formats to Communicate with Other Drops

Price/Location/Start Date:

Call to Discuss

Advanced Control**Course WAC/ADC****Overview**

This 5-day course is intended for those students who must implement WDPF control programs or make significant modifications to existing programs using the WEStation, PCH or the Classic Engineer station. Using previous knowledge of control theory, the student will learn how to implement control design in a WDPF environment. The course emphasizes how to apply, scale, tune, track and configure algorithms. This course builds on the control topics presented in the prerequisites and includes classroom lectures on WDPF control algorithms, oral and written problem presentations, and selected lab exercises.

Prerequisites

Prior completion of WSU (WEStation Software User) or SYS (WDPF System User) course or WSM (WEStation Software Maintenance) or SYM (WDPF System Maintenance) course is required. A working knowledge of control systems and control theory is recommended.

Topics

- Implement Control from a SAMA or ISA Functional Diagram
- Use all Graphic Algorithms
- Build or Modify Ladders, Graphic Control or Text Control in an Existing WDPF System

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WEStation Troubleshooting

Course WTS

Overview

This 5-day course is designed for technicians who are responsible for troubleshooting a WEStation system. It presents methodical approach to identifying and correcting a variety of operating problems. Numerous exercises illustrate how to apply troubleshooting methods.

Prerequisites

A general background in (analog and digital) control building techniques and a basic understanding of computer systems is required. Prior completion of WSM (WEStation Software Maintenance) and WHM (WEStation Hardware Maintenance) is recommended.

Topics

- Use a Systematic Approach to Troubleshooting WDPF Systems
- Recognize When System Problems Exist
- Use Available Tools to Collect Data Effectively
- Analyze the Cause of System Faults/Repair
- Analyze & Improve System/Troubleshooting

Price/Location/Start Date:

Call to Discuss

WDPF System User

Course SYS

Overview

This 3-week course is designed for the engineer who is responsible for generating and modifying WDPF application programs. It describes the general use and functions of various drops in the WDPF system including use of the Engineer Workstation as the basic tool for building process diagrams, the DPU database and modulating and logic control. The student will design/build all programs necessary to implement and control an actual or simulated process. This course may also be used in place of SYM (WDPF System Maintenance) as a prerequisite to the 7LM (WDPF Level 7 Maintenance) course.

Prerequisites

A basic background in modulating/logic control and digital computer techniques is helpful.

Topics

- Use the Operator Station to Monitor or Change System Parameters
- Create and Modify Custom Graphics
- Construct a WDPF System Database
- Create and Modify DPU Control Programs
- Load and Initialize the System
- Manipulate Files and Directories

Price/Location/Start Date:

Call to Discuss

WDPF System Maintenance

Course SYM

Overview

This 2-week course is for the technician or engineer who is responsible for maintaining the WDPF system or for modifying WDPF software. The course presents how to isolate software problems and make system changes. The course describes the general use and functions of various drops in the WDPF system including use of the Engineer Workstation as the basic tool for building process diagrams, the DPU database and modulating and logic control. The student will build all programs necessary to implement and control a simulated or actual process.

Prerequisites

A basic background in modulating/logic control and digital computer techniques is helpful.

Topics

- Monitor and Change System Parameters
- Modify Custom Graphics
- Modify a System Database
- Create and Modify DPU Control Programs
- Load and Initialize Diagrams and DPU Programs

Price/Location/Start Date:

Call to Discuss



WDPF Level 7 Maintenance**Course 7LM****Overview**

This 2-week course is for the engineer or technician who is responsible for hardware maintenance on the WDPF system. The course presents theory and operation of the WDPF drop elements and how they interact to perform primary drop functions. Students learn a logical approach to diagnosing and isolating faults to the card level, and will troubleshoot actual hardware and software problems. Hands-on labs cover cleaning, adjusting and testing standard system peripherals.

Prerequisites

Prior completion of SYM (WDPF System Maint.) or SYS (WDPF System User) is required.

Topics

- Understand the Operation of the Data Highway Controller
- Isolate Card Failures and Configure a Replacement Card
- Make all Necessary Measurements and Adjustments to Standard Peripheral Devices
- Perform Required Preventive Maintenance
- Distinguish Between Hardware/Software Problems
- Troubleshoot a WDPF System Using a Logical Approach

Price/Location/Start Date:

Call to Discuss

WDPF PC on the Highway**Course PCH****Overview**

This 5-day course is intended for system engineers or individuals who are responsible for developing custom application programs or those who maintain, troubleshoot, or modify software on the PCH ISA or Microchannel-based drop. The course presents the functionality of the ISA and Microchannel-based PCH within the WDPF environment and various PCH hardware and software packages.

Prerequisites

There are no prerequisites for students who will use the PCH in multi-drop WDPF installations, although students who are responsible for the entire WDPF installation should also attend either SYS (WDPF System User) or SYM (WDPF System Maintenance) for a more comprehensive understanding of WDPF system installation.

Topics

- Configure the Basic ISA or Microchannel-Based PCH Drop
- Load, Configure/Use Various Utility Pkges.
- Use the HMI and Engineering Functions
- Use Basic OS/2 Functions

Price/Location/Start Date:

Call to Discuss

WEStation Operator**Course WOP****Overview**

The WEStation Operator Console is the interface between plant operating personnel and plant processes. This course includes instruction on using the WDPF WEStation keyboard, CRT and peripherals to monitor and control process application. Students will also be taught to use the WDPF Open Windows menu environment to display and manipulate process diagrams, alarms, trends and more.

Prerequisites

There are no prerequisites for this course.

Topics

- Display Process Diagrams
- Review and Acknowledge System Alarms
- Obtain and Edit Process Information
- Create Live and Historical Trends
- Review and Interpret Problem Conditions in the WDPF Database

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WEStation Networking

Course NWK

Overview

This 5-day introductory networking course provides students with an understanding of network design at the plant site. The class gives students the ability to interface with various network devices and the skill necessary to implement secure remote sessions on the WEStation network. This course is intended for anyone who will administer and/or maintain a WEStation network or link it to other networks within the plant.

Prerequisites

Students must have a good understanding of WDPF WEStation system architecture. It is recommended that students attend the WSU (WEStation Software User) course or the WSM (WEStation Software Maintenance) course prior to attending this course.

Topics

- Design and Implement a WEStation Networking Scheme
- Use TCP/IP Diagnostic Tools Provided with the WDPF System for the Ethernet Network
- Analyze Problem Situations on the Network and Propose Viable Solutions
- Implement a Point-to-Point Protocol (PPP) Connection to the Network
- Create and Use a Remote Session Running on a WEStation Network
- Develop a Security Scheme for a WEStation Network to Interface with a Plant Network
- Configure a Workstation as a Router Between the WEStation Network and Another Ethernet Network
- Use File Transfer Programs to Move Information Across the Network
- Configure a Personal Computer for X-Window Functionality
- Appreciate the Practical Application of the ISO Seven-Layer Model

Price/Location/Start Date:

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DEH MOD III System

Course DEH MOD III

Overview

This 5-day course covers typical steam turbine operation from startup to line synchronization. Students will interpret the operator auto and overspeed protection functionals, and will learn the automatic turbine control and rotor stress programs. Classroom lecture includes valve operation, calibration and troubleshooting.

Prerequisites

A knowledge of steam turbines and prior completion of SYS (WDPF System User) or SYM (WDPF System Maintenance) and 7LM (WDPF Level 7 Maintenance) strongly recommended.

Topics

- Use all Turbine Graphics
- Perform Valve Testing
- Interpret Operator Auto/Overspeed Protection
- Use the Manual Panel
- Use the Calibration Panel to Troubleshoot

Price/Location/Start Date:

Call to Discuss

**These courses are available on request.
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or 412-963-3900.**

Standard User Upgrade to WEStation 8.6

Course USU - 8.6

Overview

This 2-week course allows the student to make a transition from the standard WDPF RMX86 software platform to the 8-level UNIX software platform. This course is designed for the engineer who is responsible for upgrading a WDPF system to a WEStation 8.6 system.

Prerequisites

Prior completion of the SYS (Standard System User) course, the SYM (WDPF System Maintenance) course or the 7LM (WDPF Level 7 Maintenance) course is required. Control building knowledge is beneficial.

This course emphasizes overall differences between the standard WDPF RMX86 software platform and the 8-level UNIX software platform. Students will complete lab exercises that illustrate both hardware and software functionality of both systems.

Topics

- Build New Graphics & Convert Existing Graphics to WEStation Format
- Maintain the System Point Directory (spd.dir) File
- Access DPU Utility Programs to Build Control
- Implement WEStation "Cmdtool" and "Shelltool" UNIX Commands
- Use SCCS to Sign out Files for Editing and Replacement
- Perform Query/Download on New and/or Modified Files
- Define and Install WEStation Drop Configurations
- Perform File Transfers to Standard WDPF Drops

Price/Location/Start Date:

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