

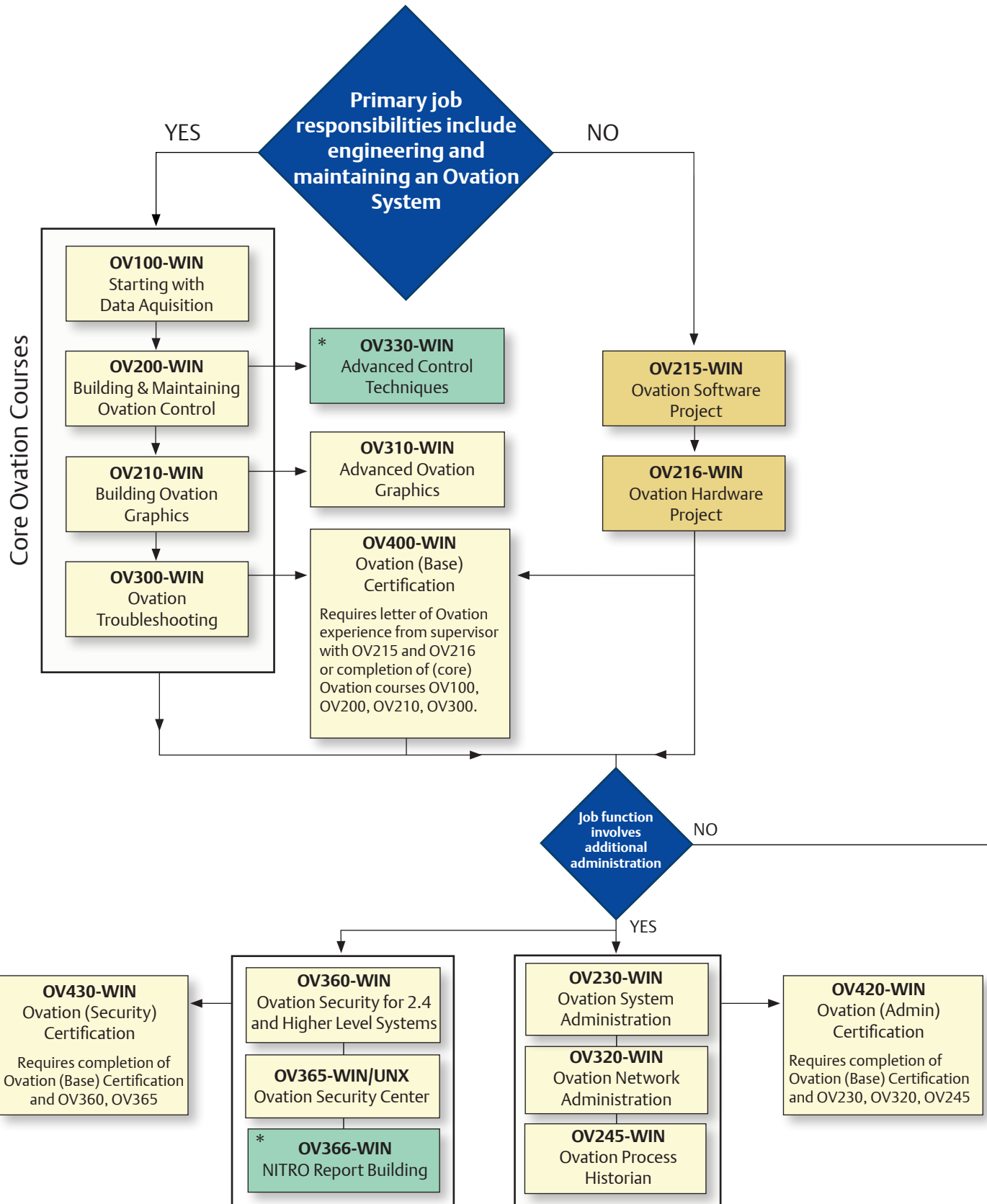
Emerson Process Management Power & Water Solutions

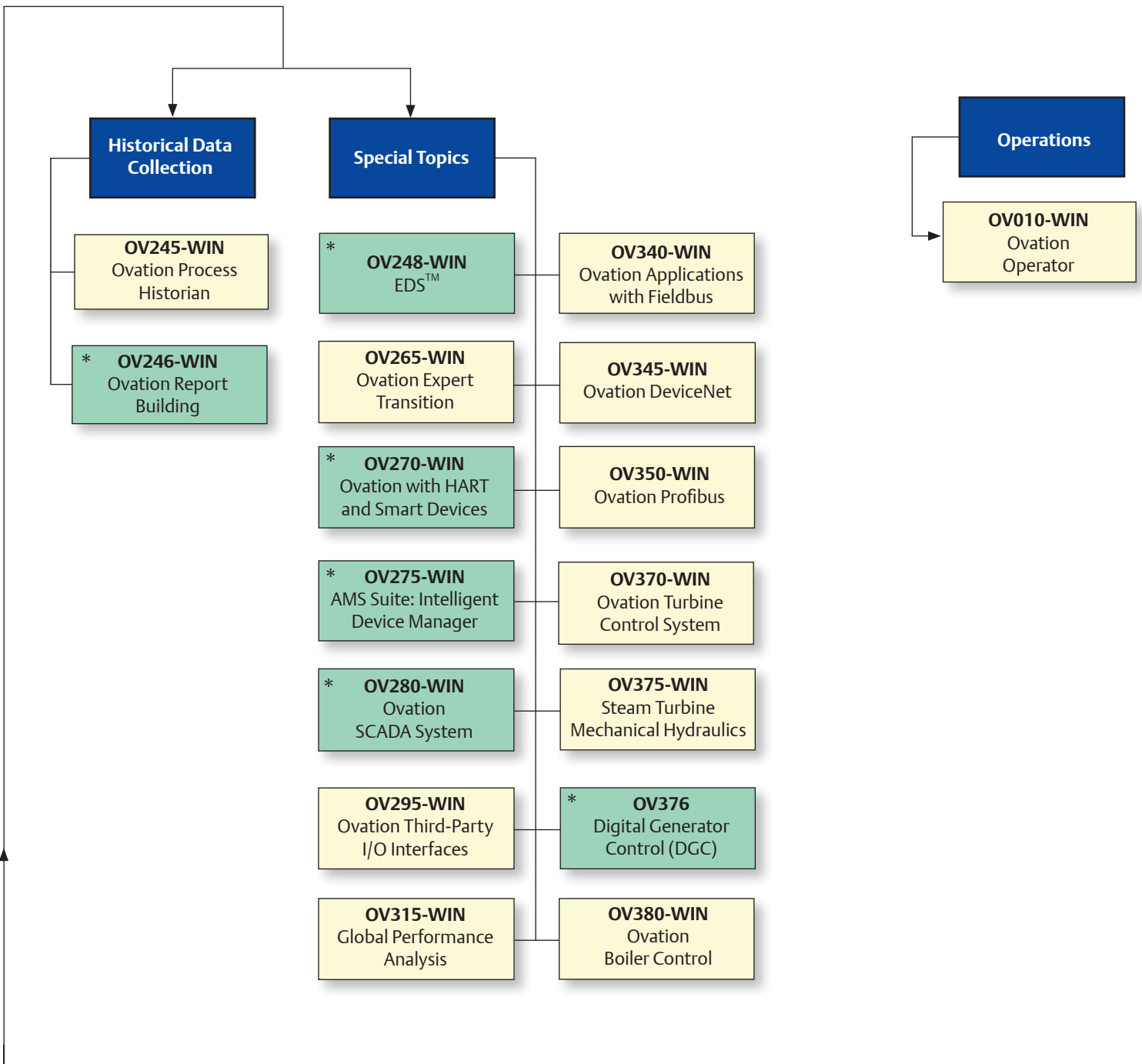
2014 Year at a Glance Training Schedule & Course Catalog



Ovation™ Course Map

The Ovation Course Map is designed to help students determine their course path for Ovation training. Emerson offers the industry's broadest array of process automation products and services; a total solution for your plant automation needs. We are committed to providing our customers with an exceptional level of education that spans every aspect of our product portfolio. We work hard to ensure that our academic deliverables are as applicable to your everyday job functions and responsibilities as possible. Our course map is an instrumental tool for charting your path to success.





All Ovation training courses can be conducted on-site.
Call 1-800-445-9723 for more information.

* Available as Virtual Course



Ovation Course Descriptions

OV010-WIN — Ovation Operator

Provides the user with the ability to use the Ovation system to perform trends, understand alarming, point (tag) details and searches as well process graphics. Concise overview of the controller, network and workstations are presented. *Offered Upon Request

OV100-WIN — Starting with Data Acquisition

Reviews the major components in an Ovation System (controllers, network switches, Operator Station and Engineer Station). The student is taught how to use Ovation tools to configure I/O modules and to modify and create digital and analog point records.

OV115-WIN — Solaris to Windows Upgrade

Designed to teach the Ovation Windows 3.5 software utility packages from a higher level, this course provides instruction on the Ovation Windows studio of application programs including the building of point records, control sheets, graphic displays and the loading, saving and downloading of each entity. Topics of discussion include: basic network, architecture and components, Operator functions, Developer Studio features, Control and Graphics building and Basic system configuration.

OV200-WIN — Building & Maintaining Ovation Control

Provides proficiency in reading Ovation functional control schemes, tuning controls schemes to improve performance, and building/implementing new control schemes. Discusses creating effective control using algorithms. Required Prerequisite: OV100

OV210-WIN — Building Ovation Graphics

Covers building Ovation system graphic diagrams and using the Ovation Graphics Builder. Course topics include layout and implementation of static and dynamic objects, linking to control, and creating perspective-type diagrams. Required Prerequisites: OV100, OV200

OV215-WIN — Ovation Software Project

Contains and connects software topic segments from five different Ovation one-week courses: OV100, OV200, OV210, OV230 and OV300. The topics covered include Ovation application functions, Developer Studio Architecture, point building, creating and modifying control sheets, creating and modifying graphics, backing-up MMI(s) including a Domain Controller, and adding points for collection to an Ovation Process Historian. The course is not intended to replace the five one-week courses directed toward personnel who have the singular need for the detailed knowledge provided in the one-week courses.

OV216-WIN — Ovation Hardware Project

The course is designed for personnel whose primary interest and/or job assignment is maintaining the Ovation Hardware. Select topics from several courses are incorporated and expanded upon, including the replacement and set up of an Ovation Controller & flash disk, and installing new I/O Thermocouple/RTD modules and building several thermocouple and RTD points. Several power supply configurations will be discussed. Students will install a HART 4-20 mA analog Input I/O module and transmitter, and will install and configure an Ovation Remote Node Controller with fiber connections. Hands-on exercises will require building control sheets and linking Digital Input and Relay Output modules. Required Prerequisite: OV100 Recommended Prerequisite: OV200

OV230-WIN — System Administration

Addresses configuring the system and maintaining the integrity of Ovation system software. Presents operating system commands and programs that facilitate system administration. Describes the components of the network.

OV235-WIN — Ovation SIS Implementation

Teaches students to recognize the terminology used with Ovation SIS. Describes the functions of the Ovation SIS network and its components. Describes the general architecture of Ovation SIS. Students will be able to monitor Ovation SIS using the data acquisition tools and configure an Ovation SIS network and SIS Controller. *Offered Upon Request

OV245-WIN — Ovation Process Historian

Provides knowledge to setup and configure the Ovation Process Historian to retrieve real-time and historical data. Students will create, schedule, and generate various types of reports, including periodic, event-driven, and on-demand. The course includes basic troubleshooting skills to help students analyze and resolve problem conditions. Required Prerequisite: OV100

OV246-WIN — Ovation OPH Report Building

This course will teach students to configure and retrieve historical data using the Ovation Process Historian (OPH) and Crystal Reports. Students will learn how to use the OPH Report Manager to define alarm, SOE, point and operator event reports. Students will also learn how to configure demanded reports, triggered reports, and timed reports in the OPH Report Manager. Students will also use Crystal Reports to create new report formats for use in the OPH Report Manager. Required Prerequisite: OV100 *Offered as a Virtual Course. See page 11

OV248-WIN — EDS™

This course is designed to give students a detailed understanding of an EDS. Upon completion of the course, students will be able to configure an EDS Server to collect point data from an existing Ovation system. An EDS client will be properly configured, and the applications that make up the EDS Terminal will be covered extensively. The course is designed for anyone using and managing the EDS. *Offered as a Virtual Course. See page 11

OV265-WIN — Ovation Expert Transition

This course will provide the user with proficiency in updating the Ovation interface after a change has been made to the ABB Bailey Infi 90. Students will learn the basic mechanics of using the Ovation OPC client and OPC90 Server (Rovisys) applications. The course includes layout and implementation of the hardware and software required for the migration. Simple methods for troubleshooting faults will also be discussed. Recommended Prerequisite: OV100

Ovation Course Descriptions

OV270-WIN — Ovation with HART and Smart Devices

Provides the skills to fully utilize the special features of I/O related to HART and smart field devices attached to their Ovation system. Items discussed include physical attachment of field devices to I/O modules, building of data points, analysis of data, and diagnosis of potential problems. Required Prerequisite: OV100 *Offered as a Virtual Course. See page 11

OV275-WIN — AMS Suite: Intelligent Device Manager

This course provides thorough information on how to configure and use AMS Intelligent Device Manager with your Ovation DCS. Students will receive hands-on experience using Ovation and AMS Device Manager software to configure Smart devices on your Ovation network. Students will also configure and examine Ovation PlantWeb Alerts generated from the Smart devices. The course is intended for plant personnel who will configure, troubleshoot, and administer AMS Device Manager on an Ovation Network. Required Prerequisite: OV100 Recommended Prerequisite: OV270 *Offered as a Virtual Course. See page 11

OV280-WIN — Ovation SCADA System

Teaches the basic components of an Ovation SCADA system. Items covered include SCADA servers, remote terminal units, scan blocks, lines, ports, configuration, protocol analyzers, and more. Recommended Prerequisites: OV100, OV210 *Offered as a Virtual Course. See page 11

OV295-WIN— Ovation Third-Party I/O Interfaces

The course teaches students how to create specialized I/O links to non-Ovation field devices using both serial link modules and the Ovation Ethernet highway. The course covers configuring and loading link controller modules, creating third-party points, memory mapping, ELC, adding third party drivers to controllers and the Ovation IP addressing requirements. Required Prerequisite: OV100 Recommended Prerequisite: OV200

OV300-WIN — Ovation Troubleshooting

Provides the skills and methods to troubleshoot and repair faults in the data acquisition and control functions of the Ovation system. Requires students to isolate faults anywhere in the signal path, from the field terminations to the I/O modules, through the controller, across the network and into the graphic display. Students will evaluate single- and multiple-problem scenarios. Required Prerequisites: OV100, OV200, OV210 or OV215, OV216

OV310-WIN — Advanced Ovation Graphics

Uses application programs and advanced programming techniques, including the use of memory segments combined with pointer manipulation, to enhance advanced graphic programming skills. Builds several graphics utilizing pointers and memory segments. Teaches students to assess problematic graphics and solve them with available tools. Required Prerequisite: OV210

OV315 — SmartProcess™ Global Performance Advisor

The course describes the capabilities and limitations of a GPA, the hardware and software requirements to implement it, and provides hands-on exercises to install, use and backup the GPA and the information that is created. After the attendees have loaded the GPA on a workstation and have been provided the knowledge of how to create a workspace, a project and a functional block diagram, hands-on exercises will include building feed-water heater performance calculations, building steam turbine performance calculations, and building condenser calculations. Data agents, and communication on a local and enterprise systems, are described. Recommended Prerequisite: OV200 *Offered Upon Request

OV320-WIN — Ovation Network Administration

Provides an understanding of general networking concepts, as well as Ovation-specific network configurations for Fast Ethernet systems. Teaches hands-on knowledge of switch and router configuration for use in Ovation systems. Course intended for Ovation network administrators, system administrators, and those upgrading their Ovation Certification Program.

OV330-WIN — Advanced Control Techniques

Builds off of previous control-building knowledge to teach implementation of control design. Continues topics from OV200-WIN. Required Prerequisite: OV200

OV340-WIN — Ovation Applications with Fieldbus

This course will provide students with a thorough knowledge of Fieldbus applications as applied to an Ovation System. Ovation Fieldbus module, segment design, device commissioning, FF algorithms, and basic troubleshooting are covered. Students will be provided with hands on experience implementing Fieldbus architecture. This course is intended for technicians who install and maintain Ovation Fieldbus devices. Required Prerequisite: OV100, OV200 Recommended Prerequisite: OV275

OV345-WIN — Ovation Applications with DeviceNet

This course will provide students with a thorough knowledge of DeviceNet applications as applied to an Ovation System. Ovation DeviceNet Module, segment design, device commissioning, point mapping and basic troubleshooting are covered. Students will be provided with hands-on experience implementing DeviceNet architecture. This course is intended for technicians who install and maintain Ovation DeviceNet devices. Required Prerequisite: OV100

OV350-WIN — Ovation Applications with Profibus

This course will provide students with a thorough knowledge of Profibus applications as applied to an Ovation System. Ovation Profibus Module, segment design, device commissioning, point mapping and basic troubleshooting are covered. Students will be provided with hands-on experience implementing Profibus architecture. This course is intended for technicians who install and maintain Ovation Profibus devices. Required Prerequisite: OV100

Ovation Course Descriptions

OV355-WIN — Ovation Applications with Wireless

This course reviews the major components in an Ovation wireless system (wireless transmitters, gateways, and the components of the SmartPack™). The student is taught how to utilize the available configuration tools to set up an Ovation wireless interface and add transmitters to an existing network. Required Prerequisite: OV100

OV360-WIN — Ovation Security for 2.4 & Higher Level Systems

Guides students in the proper planning and installation of security for Ovation systems version 2.4 and later. Students will discuss and understand Ovation external and internal security concerns and apply appropriate safeguards. Covers installation and configuration of Ovation-compatible Windows Server 2003 Domain Controllers, Windows XP service packs, and Windows security patches. Student will configure Ovation security using Ovation Security Manager.

OV365-WIN — Ovation Security Center

The Ovation Security Center (OSC) consists of a suite of security packages and services that have the ability to enhance and manage the cyber security of Ovation expert control systems without disrupting the controlled process. The OSC is a key component in achieving NERC CIP compliance by offering services such as: Patch Management, Event Management and Malware Prevention. The course will examine how to configure and maintain the components of an OSC system on Ovation levels 2.4 and newer on Windows OS and Ovation levels 1.7 and newer on Solaris OS. Recommended Prerequisite: OV320, OV360

OV366-WIN — Nitro Report Building

This course focuses on Security Incident Event Management (SIEM) reporting through the SIEM agent of the OSC. The class centers around managing preloaded templates and on creating reports utilizing the report building feature of the SIEM. Students will be able to add, modify, delete and export reports upon completion of the class. Recommended Prerequisites: OV320, OV360

OV370-WIN — Ovation Turbine Control System

Examines the Ovation steam turbine control system functions, including operation, graphics, and control logic, using tie-back simulators. Includes calibration and troubleshooting exercises on speed detector and valve positioner modules. Required Prerequisite: OV100, OV200 Recommended Prerequisite: OV375

OV375-WIN — Steam Turbine Mechanic Hydraulics

This course is designed to identify the major hydraulic components, pumps, accumulators and other electro-hydraulic control elements of a steam turbine. Students will demonstrate knowledge on hydraulic logic valves, as related to directional, proportional and servo valves and trace components using hydraulic diagrams and drawings. Students will also demonstrate knowledge on types of oil used, acceptable temperatures, cleanliness and how to fill the tank.

OV376 — Digital Generator Control (DGC)

This course is intended for Engineers and I&C Technicians that interface and maintain a DGC system and includes a review of the history and fundamentals of excitation, types of excitation, and the concepts of SCR bridges. The course discusses the DGC and its elemental components, maintenance and troubleshooting, data retrieval and analysis. No required prerequisites as this course does not require knowledge of Ovation DCS.

OV380-WIN — Ovation Boiler Control

Reviews standard control logic used in Ovation systems for a typical, coal-fired, drum-type boiler. Examines typical analog and digital logic building blocks and how they combine to create a functional unit. Explores theory concerning the air, water, steam, and fuel systems, as well as the modes and operation of coordinated control. Required Prerequisite: OV100, OV200

OV400-WIN — Ovation (Base) Certification

Offered as a stand-alone web-based exam or implemented with a pre-testing review at the Training Center, the OV400-WIN measures the student's proficiency in areas related to database building, control implementation, control graphic linkage and troubleshooting on a system-wide basis. Earning Ovation certification acknowledges the competency of the individual on Ovation product lines and enhances their abilities in addressing, assessing and repairing problematic situations within the Ovation system. In both offerings, a multi-point examination is administered and participants are required to achieve a grade score of 80% or greater to successfully gain certification. Required Prerequisite: OV100, OV200, OV210, OV300 *Contact the Training Registrar for additional information*

OV420-WIN — Ovation (Admin) Certification

Offered as a stand-alone web-based exam or implemented with a pre-testing review at the Training Center, the OV420-WIN measures the student's proficiency in areas that address the overall Ovation system configuration while maintaining the integrity of the system software. It assesses the student's understanding of networking concepts and that of switch and router configurations. Achieving Admin certification acknowledges the competency of the individual in maintaining the integrity of the Ovation system concerning user access and capabilities. In both offerings, a multi-point examination is administered and participants are required to achieve a grade score of 80% or greater to successfully gain certification. Required Prerequisite: Ovation (Base) Certification Achievement and OV230, OV320, OV245 *Contact the Training Registrar for additional information*

OV430-WIN — Ovation (Security) Certification

This certification course measures the student's proficiency in applying security packages as well as managing, enhancing, and updating the cyber security of the Ovation Control System. Achieving the Security Certification acknowledges the competency of the individual who has demonstrated an understanding and ability in maintaining services such as Patch Management and Malware Prevention. A multi-point examination is administered and participants are required to achieve a score of 80% or greater to successfully gain certification. Required Prerequisite: OV360, OV365 *Contact the Training Registrar for additional information*

Simulator Course Descriptions

Courses for Plant Instructors

Sim-001 – Simulator Instructor Station

This course teaches instructors how to use the principal features of the simulator instructor station. Hands-on exercises include snapping and resetting the simulator conditions, backtracking, plotting parameter trends, applying equipment malfunctions and other types of actions, using event triggers and automated plant procedures, and reviewing trainee performance. This course is limited to four instructors and is conducted at the customer's site using the customer's simulator. Course applies only to simulators having Ovation-based or JADE™ JStation™ instructor station software by GSE Power Systems, Inc.

Sim-011 – Simulator Instructor Training

This course teaches instructors the process of planning, preparing, validating, executing, and evaluating simulator training sessions for plant operators. Hands-on exercises apply the process to plan, prepare, and validate simulator training sessions for unit startup, unit shutdown, unit abnormal operations, and DCS graphics familiarization. This course is limited to four instructors and is conducted at the customer's site using the customer's simulator. The course applies only to simulators having Ovation-based or JADE™ JStation™ instructor station software by GSE Power Systems, Inc.

Courses for Plant Operators

Sim-021 – Simulator Training for New Operators

This course applies the customer's simulator to develop the operating skills of new plant operators. The trainee operates the simulator as the real unit, in accordance with the customer's procedures. The customer's instructor controls the conduct and content of the training. The Emerson trainer helps the customer's instructor use the course materials, manipulate the simulator instructor station, and generally conduct the training. Course is divided into ten discrete simulator training sessions that focus on essential Ovation graphics operations, unit startup, unit shutdown, and unit operations in response to select abnormal conditions. The course is flexible and accommodates specific unit, simulator, and operating procedures. This course is limited to four operators and three instructors and is conducted at the customer's site using the customer's simulator. The course applies only to simulators having Ovation-based or JADE™ JStation™ instructor station software by GSE Power Systems, Inc. Required prerequisite for operators: Sufficient knowledge of plant systems, controls, principles, and procedures to understand and perform the operations with some instructor assistance. Recommended prerequisite for instructors: Sim-001 and Sim-011

Sim-031 – Simulator Training for Experienced Operators

This course applies the customer's simulator to exercise, refresh, and test the operating skills of experienced plant operators. The trainee operates the simulator as the real unit, in accordance with the customer's procedures. The customer's instructor controls the conduct and content of the training. The Emerson trainer helps the customer's instructor use the course materials, manipulate the simulator instructor station, and generally conduct the training. The course is patterned after one operational cycle of the real plant — unit startup, power generation, and shutdown. The trainee encounters a variety of abnormal conditions that require responsive action. The course is flexible and accommodates specific unit, simulator, and operating procedures. This course is limited to four operators and three instructors and is conducted at the customer's site using the customer's simulator. The course applies only to simulators having Ovation-based or JADE™ JStation™ instructor station software by GSE Power Systems, Inc. Required prerequisite for operators: Sufficient knowledge of plant systems, controls, principles, and procedures to understand and perform the operations with little or no instructor assistance. Recommended prerequisite for instructors: Sim-001 and Sim-011

2014 Ovation Windows Training Schedule

All Ovation courses, with the exception of OV200-WIN 3.0.X, will be taught on Ovation 3.3 or later level software with the Windows 7 Operating System.

| Code & Course Name | Price (\$USD) | Duration | Course Dates | | |
|---|---------------|----------|----------------|--------------|-----------|
| OV100-WIN Starting with Data Acquisition | \$3,425 | 5 Days | Jan 6-10 | Jun 9-13 | Oct 6-10 |
| | | | Feb 10-14 | Jul 14-18 | Nov 3-7 |
| | | | Mar 24-28 | Aug 11-15 | Dec 1-5 |
| | | | May 12-16 | Sep 8-12 | |
| OV115-WIN Solaris to Windows Upgrade | \$3,425 | 5 Days | May 5-9 | Oct 20-24 | |
| OV200-WIN 3.0.X Building & Maintaining Ovation Control (AutoCAD) | \$3,425 | 5 Days | Sept 29-Oct 2 | | |
| OV200-WIN Building & Maintaining Ovation Control | \$3,425 | 5 Days | Jan 13-17 | Jun 16-20 | Oct 13-17 |
| | | | Feb 17-21 | Jul 21 - 25 | Nov 10-14 |
| | | | Mar 31-Apr 4 | Aug 18-22 | Dec 8-12 |
| | | | May 19-23 | Sep 15-19 | |
| OV210-WIN Building Ovation Graphics | \$3,425 | 5 Days | Jan 20-24 | Jul 28-Aug 2 | Nov 17-21 |
| | | | Feb 24-28 | Aug 25-29 | Dec 15-19 |
| | | | Apr 7-11 | Sep 22-26 | |
| | | | Jun 23-27 | Oct 20-24 | |
| OV215-WIN Ovation Software Project | \$6,850 | 10 Days | Jan 13-24 | Jun 2-13 | Sep 15-26 |
| | | | Apr 21 - May 2 | Jul 14-25 | Oct 20-31 |
| | | | Apr 28 - May 9 | Aug 4-15 | Nov 3-14 |
| OV216-WIN Ovation Hardware Project | \$3,425 | 5 Days | May 5-9 | Nov 10-14 | |
| OV230-WIN System Administration | \$3,425 | 5 Days | Mar 3-7 | Aug 11-15 | Nov 17-21 |
| | | | May 19-23 | Oct 6-10 | |
| OV245-WIN Ovation Process Historian (OPH) | \$3,425 | 5 Days | Feb 3-7 | May 5-9 | Oct 13-17 |
| OV246-WIN Ovation OPH Report Building | \$2,135 | 3 Days | Mar 25-27 | Sep 30-Oct 2 | |
| OV248-WIN EDS | \$2,135 | 3 Days | Apr 1-3 | Oct 7-9 | |
| OV265-WIN Ovation Expert Transition | \$2,930 | 4 Days | Jun 9-12 | | |
| OV270-WIN Ovation with HART and Smart Devices | \$1,825 | 2 Days | Feb 11-12 | May 20-21 | Nov 4-5 |
| OV275-WIN AMS Suite: Intelligent Device Manager | \$1,825 | 2 Days | Feb 13-14 | May 22-23 | Nov 6-7 |
| OV280-WIN Ovation SCADA System | \$2,135 | 3 Days | Feb 18-20 | | |
| OV295-WIN Ovation Third-Party I/O Interfaces | \$2,930 | 4 Days | Feb 25-28 | Jul 29-Aug 1 | Dec 2-5 |

2014 Ovation Windows Training Schedule

| Code & Course Name | Price (\$USD) | Duration | Course Dates | | |
|---|---------------|----------|--------------|--------------|-----------|
| OV300-WIN Ovation Troubleshooting | \$3,425 | 5 Days | Jan 27-31 | Jun 2-6 | Nov 3-7 |
| | | | Mar 10-14 | Aug 4-8 | |
| | | | Apr 28-May 2 | Sep 29-Oct 2 | |
| OV310-WIN Advanced Ovation Graphics | \$2,930 | 4 Days | Sep 9-12 | | |
| OV315-WIN Global Performance Analysis (GPA) | \$3,425 | 5 Days | Mar 24-28 | Aug 4-8 | |
| OV320-WIN Ovation Network Administration | \$3,425 | 5 Days | Feb 10-14 | Jul 7-11 | |
| | | | May 12-16 | Oct 27-31 | |
| OV330-WIN Advanced Control Techniques | \$3,425 | 5 Days | Aug 18-22 | Nov 17-21 | |
| OV340-WIN Ovation Applications with Fieldbus | \$2,135 | 3 Days | Mar 5-7 | Jun 4-6 | Aug 6-8 |
| OV345-WIN Ovation Applications with DeviceNet | \$1,825 | 2 Days | Aug 11-12 | | |
| OV350-WIN Ovation Applications with Profibus | \$1,825 | 2 Days | Aug 13-14 | | |
| OV360-WIN Ovation Security for 2.4 & Higher Level Systems | \$3,425 | 5 Days | Feb 17-21 | Jul 14-18 | |
| | | | May 5-9 | Sep 15-19 | |
| OV365-WIN Ovation Security Center (Applies to Ovation levels 2.4 and higher) | \$2,135 | 3 Days | Feb 25-27 | Jun 24-26 | Nov 11-13 |
| | | | Apr 22-24 | Aug 26-28 | |
| OV366-WIN NITRO Report Building | \$1,825 | 2 Days | Mar 18-19 | Sep 3-4 | |
| OV370-WIN Ovation Turbine Control System | \$3,425 | 5 Days | Jul 21-25 | Sep 29-Oct 3 | Dec 8-12 |
| OV375-WIN Steam Turbine Mechanical Hydraulics | \$2,135 | 3 Days | Feb 4-6 | Jul 29-31 | |
| OV376 Digital Generator Control (DGC) | \$2,135 | 3 Days | Jan 21-23 | Apr 22-24 | Sep 23-25 |
| OV380-WIN Ovation Boiler Control | \$3,425 | 5 Days | Mar 10-14 | Dec 15-19 | |
| OV400-WIN Ovation (Base) Certification | \$3,425 | 5 Days | Apr 7-11 | Aug 25-29 | |
| OV420-WIN Ovation (Admin) Certification | \$3,425 | 5 Days | Sep 8-12 | | |
| OV430-WIN Ovation (Security) Certification | \$3,425 | 5 Days | Sep 22-26 | | |

Color coding denotes Virtual Course. See details on page 11.

Color coding denotes Regional Course. See location schedule on page 10.

2014 Regional Location Training Schedule

| Course | Price | Duration | Course Dates | |
|---|---------|----------|----------------|------------|
| Charlotte, NC | | | | |
| OV100-WIN Starting with Data Acquisition | \$4,080 | 5 Days | Feb 10-14 | Oct 6-10 |
| OV115-WIN Solaris to Windows Upgrade | \$4,080 | 5 Days | May 5-9 | Oct 20-24 |
| OV200-WIN Building & Maintaining Ovation Control | \$4,080 | 5 Days | Feb 17-21 | Oct 13-17 |
| OV215-WIN Ovation Software Project | \$8,160 | 10 Days | Apr 21 - May 2 | |
| OV300-WIN Ovation Troubleshooting | \$4,080 | 5 Days | Jun 2-6 | |
| Chicago, IL | | | | |
| OV215-WIN Ovation Software Project | \$8,160 | 10 Days | Jun 2-13 | Sep 15-26 |
| Houston, TX | | | | |
| OV215-WIN Ovation Software Project | \$8,160 | 10 Days | Jan 13 - 24 | Aug 4 - 15 |
| | | | Apr 28 - May 9 | Nov 3-14 |

2014 Simulator Training Schedule

| Course | Price | Duration | Course Dates | |
|--|------------------|----------|---|--|
| <i>Courses for Plant Instructors</i> | | | | |
| Sim-001 – Simulator Instructor Station | Call for pricing | 3 Days | Available Upon Request On-site Course/Maximum of 4 Students* | |
| Sim-011 – Simulator Instructor Training | Call for pricing | 5 Days | Available Upon Request On-site Course/Maximum of 4 Students* | |
| <i>Courses for Plant Operators</i> | | | | |
| Sim-021 – Simulator Training for New Operators | Call for pricing | 10 Days | Available Upon Request On-site Course/Maximum of 4 Students & 1 Instructor* | |
| Sim-031 – Simulator Training for Experienced Operators | Call for pricing | 10 Weeks | Available Upon Request On-site Course/Maximum of 4 Students & 1 Instructor* | |

*Course are available for GSE and Ovation-based simulators

Training Information

Registration

Contact the registrar at 1-800-445-9723 (option 5) or use the form in the training section of the Ovation Users' Group web site to register. We recommend that students enroll as early as possible, as class sizes are limited. Please note that enrollment is accepted on a first-come, first-served basis, and payment is due upon registration. Each class is subject to cancellation if less than five students are registered by 10 business days prior to the class start date. Therefore, we recommend that students make refundable travel arrangements.

Should a schedule conflict arise, your reservation cancellation will be free of charge if written notice is received at least 21 calendar days prior to the start of class. Cancellations received between 1 and 20 calendar days prior to the start of class are subject to a charge equal to 50 percent of the list price. Please visit www.ovationusers.com for details on custom courses, registration, hotel accommodations, and additional information.

***Note for International Students:** Registration and formal security clearances are required for all courses conducted at an Emerson location in the United States. Contact the registrar at 1-800-445-9723 for information and instructions.

Software and Operating Systems

All Ovation courses, with the exception of OV200-WIN 3.0.X, will be taught on Ovation 3.3 or later level software with the Windows 7 Operating System.

Ovation Users Web Site

The complete training schedule and other training information can be accessed at www.ovationusers.com. The web site also provides important customer information such as downloadable Ovation manuals, Product Notifications, Software Release information and more. To register for web access, go to www.OvationUsers.com, click on the *Apply for Web Access* link, and enter *Code TNG14*. Once we verify your status as an owner or end-user, your ID and password will be sent to you via email.

Custom Courses

In addition to our standard course curriculum, the Emerson training team can develop customized training programs to meet your specific learning objectives. Courses can be modified from existing standard classes, or an entirely customized curriculum can be developed to help achieve your goals. These courses can also be taught at your location.

Our training specialists will work with you to ensure that custom courses meet all of your learning objectives and that the appropriate equipment is available. Once objectives are established, the training specialist will develop all classroom materials and manuals and will design and lab work to meet specific objectives for student skills and proficiencies.

On-site Training

To train a team of individuals, it is sometimes more economical and efficient for Emerson to conduct classes at your location. On-site instruction also allows the instructor to concentrate on details that are relevant to your site. All standard courses can be taught on-site, or you can customize courses that emphasize topics relevant to your specific applications. Ovation classroom equipment (workstations, network, and controllers) can be provided to your site to support the training courses.

Regional Training

Regional training courses are held periodically at several Emerson office locations across the country. Courses feature highlights from the standard course curriculum which are condensed into convenient, multiple-week training sessions. Availability of Regional Training is communicated in the monthly Ovation Users eNewsletter. For more information about the courses scheduled for 2014, please contact the registrar or visit the Ovation Users web site.

Ovation Virtual Classroom

The *Ovation Virtual Classroom* provides real-time learning from our certified subject-matter experts. Students can see and speak with a live instructor while participating in courses from their office or remote desktop computers that have full access to factory systems. Attending a course through the *Ovation Virtual Classroom* eliminates travel expenses, saves time, and provides a flexible way to achieve learning goals. View a demo of virtual training by visiting the training section of the Ovation Users web site.

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