

EDUCATIONAL SERVICES

Maximize your Investment!



2013 United Kingdom & Ireland Training Catalogue

Emerson Educational Services United Kingdom & Ireland helps engineers; operators and technicians maximize their companies' investment by learning more ways to run their operation at its full potential.

Emerson Process Management's specialists can build proper customised training programs so you can benefit from a quality training on state-of-the-art technology in our classrooms or on-site.

Course Offerings

Automation Systems

DeltaV / PROVOX / RS3 Systems

Field Devices

Daniel / Measurement / Process Analytic / Remote Automation Solutions / Gas Analyzer / Gas Chromatographs / Liquid Analytical

Plant Optimization

PlantWeb / AMS Suite: Intelligent Device Manager / FOUNDATION fieldbus

Plant Safety

Educational Services United Kingdom & Ireland
eu.education@emerson.com



EMERSON[™]
Process Management

Manage and Optimise

Get up to speed quickly and up skill personnel on the easy to learn, use and maintain DeltaV system. A host of courses are available for engineers, technicians, operators, and anyone else who needs to know the installation, configuration, maintenance, troubleshooting, and operation of the DeltaV systems.

DeltaV Implementation I – 7009

This course is designed for individuals responsible for configuring and commissioning a DeltaV system. Upon completion of this course the student will be able to define system capabilities, define nodes, configure continuous and sequential control strategies, operate the system and define users and security.

Available in Leicester on
12Aug/9Sep/21Oct or on demand

DeltaV Operator Interface for Continuous Control – 7012

This course is for operators, supervisors and managers responsible for the operation of continuous processes using DeltaV system. This 2-day course uses lectures and hands-on workshops to provide an in-depth overview on operating the DeltaV System. Students who complete this course will:

- access operator displays
- manipulate various control module operating parameters to operate the process
- respond to process alarms
- monitor process performance
- view real-time and historical trend data

Available in Leicester on demand

DeltaV Implementation II – 7017

This sequential course is for users that have completed introductory courses and for process control engineers responsible for configuring the DeltaV system. Advanced topics will be covered including displays, function blocks, and configuration tips

Available in Leicester on 4Nov or on demand

DeltaV Hardware and Troubleshooting – 7018

This course is recommended for instrumentation and maintenance technicians, managers, and configuration engineers who need to know about DeltaV hardware. It provides an overview of the DeltaV Control Network, M- and S-series hardware, and software applications. Upon completion, you will be familiar with the hardware and be able to perform troubleshooting techniques. Using a combination of lectures and workshops, you will learn how to use operator and diagnostic tools to identify and locate hardware-related fault conditions. Workshops provide the opportunity to disassemble and reassemble the M- and S-series hardware and return the system to an operating state.

Available in Leicester on
22Jul/19Aug/16Sep/14Oct/11Nov/25 Nov or on demand



DeltaV Systems Batch Implementation – 7016

This course is designed for individuals responsible for configuring and commissioning DeltaV Batch software. A process simulator will provide a batch application. Students will use DeltaV Batch software to configure recipe entities including, Aliasing, Equipment Trains, Dynamic Unit Allocation, Phase Logic, Operations and Unit Procedures. Equipment entities will also be configured including, Units modules and Process cells.

Available in Leicester on
15Jul/2Sep or on demand

AMS Device Manager – 7020

Completing 3-days of AMS Device Manager hands-on instructor assisted training modules and exercises, provides the quickest route to your productive use of this predictive maintenance application. The training exercises focus on skills required by engineers and technicians, and are based on real-world tasks that most users will encounter on the job.

Available in Leicester on 15Jul/9Sep/18Nov or on demand

DeltaV Systems Administration. XP/Server 2003 – 7024

This course is designed for system administrators that will be installing, commissioning and implementing a DeltaV system running on the XP operating system and Windows Server 2003.

- Overview/Review of System Components and Topologies
- Installation Checklist of the XP Operating System
- Installation of the DeltaV Software Components
- DeltaV Control Networks
- DeltaV Domains and Workgroups
- Users and Securities
- Upgrading Hardware and Software
- Backup and Restore Procedures
- Importing/Exporting
- Process Historian Administration
- DeltaV Zones

Available in Leicester on 23Sep or on demand

DeltaV™ Safety Instrumented System (SIS) Maintenance – 7303

The course covers the architecture of the DeltaV SIS including Rosemount SIS instruments and Fisher SIS Digital Valve Controllers. Students will gain a working knowledge of the hardware and software allowing them to troubleshoot and maintain the system.

Available in Leicester on 8Jul/14Oct or on demand



Fieldbus Systems and Devices - 7032

This course is for individuals responsible for installing, troubleshooting, calibrating and configuring FOUNDATION™ fieldbus instruments and control strategies using the Delta V scaleable systems. The student will be able to install fieldbus instruments and segment checkout for the correct operation of the physical layer. The student will be able to use the DeltaV system to perform AMS Device Manager methods such as calibration, setup wizards, zero trim and diagnostics. The student will be able to implement a pressure loop using FOUNDATION™ fieldbus function blocks with the DeltaV Control Studio application. The student will configure PlantWeb Alerts and device alarm parameters.

Available in Leicester on 12Aug/28Oct or on demand

DeltaV™ SIS Implementation – 7305

The course covers complete DeltaV SIS Implementation including hardware and software architecture. Students will be able to design a DeltaV SIS Network and Safety Instrumented Functions (SIFs). Additionally, students will be able to configure smart SIS instruments and their associated alerts, including partial stroke testing.

Available in Leicester on 1Jul/5Aug/16Sep/21Oct or on demand



Measure and Analyse

Emerson Process Management has planned and mobilized its training programs with a vital objective - saving customers time and money. We offer a comprehensive portfolio of educational services including measurement basics, operating and maintaining equipment, hands-on programming, and diagnosis of potential on-site problems.

Customers choose instruction either at their site or a Emerson Process Management facility, led by Emerson engineers, technicians and other service specialists. Emerson training courses enable customers to operate flow measurement equipment at top efficiency, reducing maintenance costs and addressing small problems before they become costly.

Ultrasonic Flow Meter . Operation and Maintenance – D3228

This 2-day course provides students with an in-depth understanding into Liquid and / or Gas Ultrasonic flow meter operating principles. Meter operation and configuration will be explained, with use of a simulator and the appropriate configuration and diagnostic software. The use of advanced diagnostic techniques will show the user how maintenance can be planned on a prescriptive basis. Routine maintenance and meter recalibration will also be covered. Full supporting literature will be supplied.

Available in Stirling on 12Aug/4Nov or on demand

Compact Prover . Operation and Maintenance – D3270

This 2-day course provides students with an in-depth understanding into the operating principles, installation and use of the small volume Prover. The control interface with the Prover Computer and its implementation for 'Direct' and 'Master Meter' proving will be explained. Proof status and abort conditions will be analysed and appropriate corrective actions will be discussed. Prover volume calibration and routine maintenance will also be covered. Full supporting literature will be supplied.

Available in Stirling on 13Feb/8May/14Aug/6Nov or on demand



Qualitative Measurement and Properties of Natural Gases Principles and Applications – D3109

This 2-day course provides students with a detailed understanding of the constituents of Natural Gas, and its behaviour under different operating conditions. Analytical measurement techniques will be explained with reference to current environmental policy, legal requirements, and commercial operating procedures. Good installation practice, the latest analytical techniques, routine, as well as breakdown maintenance, and necessary remedial actions, will be covered comprehensively. Full supporting literature will be supplied.

Available in Stirling on 19Aug/11Nov or on demand



FloBoss S600 Flow Computer Operation and Maintenance – D3250

This 2-day course provides students with a detailed appreciation of the operation, design specification, and configuration of the flow computer. This hands-on course deals with file transfer, configurable functions, and maintenance as part of the scope. The instructor will make use of the latest configuration software. Full supporting literature will be made available to students.

Available in Stirling on 9Sep/2Dec or on demand

Metering System Appreciation System Design, Installation Practices and Applications – D3009

This 2-day course is offered as an introduction to high accuracy fluid flow measurement systems. The instructor will explain the range of gas and liquid flow measurement products, and necessary secondary instrumentation. For product quality; liquid sampling, and gas analysis techniques will be explained. Flow computer calculations, based on applicable standards, will also be reviewed. System maintenance and good metering practice will be discussed. Full supporting literature will be made available to students.

Available in Stirling on

13Mar/5Jun/11Sep/4Dec or on demand

DanPac Measurement & Control System Introduction to Operation and Maintenance – D3259

Completing 3-days of AMS Device Manager hands-on instructor assisted training modules and exercises, provides the quickest route to your productive use of this predictive maintenance application. The training exercises focus on skills required by engineers and technicians, and are based on real-world tasks that most users will encounter on the job.

Available in Stirling on

20Feb/15May/21Aug/13Nov or on demand

Hydrocarbon Gas Flow Measurement Systems Operation and Maintenance – D3119

This 2-day course provides students with a detailed understanding of the principles of measurement for Hydrocarbon Gases. Consideration of the correct Primary measuring device, its installation, operation, and secondary instrumentation requirements will be explained. The instructor will reference applicable standards, used to design the system to optimize performance. This includes system calibrations and device maintenance. Full supporting literature will be made available to students.

Available in Stirling on

18Mar/10Jun/16Sep/9Dec or on demand

Hydrocarbon Liquid Flow Measurement Systems Operation and Maintenance – D3019

This 2-day course provides students with a detailed understanding of the principles of measurement for Hydrocarbon Liquids. Consideration of the correct Primary measuring device, its installation, operation, and secondary instrumentation requirements will be explained. The instructor will reference applicable standards, used for design, and to optimize system performance. This includes system calibrations, metering practices, and maintenance.

Full supporting literature will be made available to students.

Available in Stirling on

20Mar/12Jun/18Sep/11Dec or on demand



Gas Chromatographs

Emerson Process Management is committed to providing our customers an exceptional level of education that spans every aspect of our Analytical product portfolio. We work hard to ensure that our academic deliverables are as applicable to your everyday job functions and responsibilities as possible.

With a wide selection of sensors, analyzers, gas chromatographs, and other measurement and analysis technologies, Analytical helps customers streamline process performance with innovative improvements that increase throughput, minimize energy usage, maximize asset life, and take advantage of continuous online diagnostics for amazing results.

Introduction to Gas Chromatographs – R4110

This 3-day course gives students a basic understanding of how a gas chromatograph works in process applications. This course will emphasize chromatograph fundamentals and basic theory.

All necessary equipment and important handouts will be provided.

Available in Dumat on demand

Operation and Maintenance of Gas Chromatographs – R4210

This 5-day course is appropriate for those who have either worked with a chromatograph for at least six months or completed the 'Introduction to Gas Chromatographs' course. It prepares participants to operate and repair a gas chromatograph.

Available in Dumat on

16Jul/3Sep/5Nov or on demand



Operation & Maintenance of Model 700 Gas Chromatographs – R4212

This course is appropriate for those interested in learning how to operate and repair a Model 700 GC. Participants must have worked with a chromatograph for at least six months or completed the 'Introduction to Model 500 and Model 700 Gas Chromatographs' course.

Available in Dumat on

14Jan/5Feb/11Feb/12Mar/2Apr/9Jul/6Aug/29Oct or on demand



Operation & Maintenance of 700XA Gas Chromatographs – R4213

This course is appropriate for those interested in learning how to operate and repair a 700XA GC. Participants must have worked with a chromatograph for at least six months or completed the 'Introduction to 700XA and 1500XA Gas Chromatographs' course.

Available in Dumat on

30Jul/10Sep/10Dec or on demand

Advanced Process Model 500 and Model 700 Gas Chromatographs – R4311

This course is most valuable to those with three years of chromatography experience. Participants should develop an advanced understanding of gas chromatograph operation, troubleshooting, and maintenance. Training will be customized based on the specific application information that the students provide. The experience instructor will look closely at the student-provided data and offer further insight to participants.

Available in Dumat on demand

Advanced Model 700 Gas Chromatograph – R4330

This course equips students with a full understanding of advanced techniques used in process gas chromatography. An experienced instructor and focused material enable students to troubleshoot a variety of field issues

Available in Dumat on demand

Emerson Process Management

Dumat Business Park

FK102PB | Tullibody

Graham.Jones@emersonprocess.com

Remote Automation Solutions

Training for engineers and technicians using these flexible devices, which are widely used by natural gas production, pipeline, and distribution companies to measure and control gas flow, is scheduled regularly at regional training centers, and available elsewhere upon request.

Config S600+ Pro – RA901

The Config600 Pro course is aimed at application engineers and system integrators who design and develop FloBoss S600+ applications for integration with metering systems and skids.

The course provides an insight into the generation of application configurations for the FloBoss S600+. The course will include a mixture of input from the trainer and participative training involving work in pairs and as individuals. All attendees will be supplied with a Config600 Pro license, electronic copies of all documentation and Config600 Pro release CD's (including PDF copies of marketing materials).

Available on demand

S600+ Operator – RA902

The FloBoss S600+ Operator course provides an overview into the hardware and operational aspects of the FloBoss S600+.

The 3-day course will include a mixture of input from the trainer and participative training involving work in pairs and as individuals.

Available on demand

ControlWave Designer Fundamentals – RA441

A hands-on course for programming the ControlWave® product family using IEC-61131-3 standard software and Bristol-supplied functions. This course will provide you the necessary knowledge and skills required to define and control inputs and outputs of related real world applications.

Students will generate and debug simple control strategy programs using Function Block, Ladder Logic, Structured Text, and Sequential Function Chart programming. They will also learn the basics of ControlWave communications, historical data storage, alarming, and hardware configurations, and much more.

Available on demand



ControlWave Configuration – RA331

For field personnel whose responsibilities may include: installation, wiring, start-up, troubleshooting, configuration, or maintenance of the ControlWave products.

An individual who seeks a more thorough understanding of the ControlWave products.

A hands-on course that covers the hardware, configuration and maintenance of the ControlWave product family.

This course will equip you with the necessary knowledge and practice needed to configure the ControlWave hardware for communications. Learn how to troubleshoot and utilize software application programs to perform diagnostics and monitor live data and communication statistics.

Available on demand



Control and Regulate

The twin forces of advancing technology, exemplified by the rapid acceptance of FIELDVUE digital valve controllers, and the merging of the valve and instrument technician crafts in many plants are making control valve education more important today than ever before. These interrelated trends necessitate higher levels of education on the part of those responsible for valve maintenance and operation. Courses for valve and instrument technicians explain what's required to maintain modern control valves and demonstrate the skills necessary to do that job effectively.



Control Valve Engineering I - 1300

This course is for engineers, technicians and others responsible for the selection, sizing, and application of control valves, actuators and control valve instrumentation. The course covers general applications and emphasizes the sizing and selection methods for a broad variety of control valves and actuators.

Available on demand

Control Valve Engineering II – 1350

This course is for practicing engineers and senior technicians who are seeking advanced training in control valve selection and sizing, and application problem solving. The Course proceeds from a review of basic sizing and selection concepts to advanced concepts used when selecting and sizing control valves for severe service and unusual applications.

Available on demand

Valve Technician I - 1400

This 4-1/2 day course explains how valves and actuators function and how they are installed and calibrated. It emphasizes installation, troubleshooting, parts replacement, and calibration of control valves, actuators, positioners and digital valve controllers. Students spend over 50% of their time in hands-on workshops.

Available on demand

Valve Maintenance with Digital Valve Controller Calibration – 1451

This is a 4-1/2 day session. The first 2-days of the course will cover sliding stem and rotary valves and actuators. Topics will include valve and actuator setup, maintenance, repair and troubleshooting. The following 2-1/2 days will be focused on the installation and calibration of the DVC 2000 and 6000 series digital valve controllers using the 275/375 handheld communicator. An overview of AMS ValveLink® Software will be included.

Available on demand



Fundamentals of HART Based FIELDVUE Digital Instruments and Handheld Communicator – 1751

This course is for technicians, engineers and others responsible for installing, calibrating and basic troubleshooting of FIELDVUE and related instruments using the 375/475 Handheld Communicator. The primary focus of this course is to provide a comprehensive experience in managing digital valve controllers using the HART 375 or 475 Handheld Communicator.

Available on demand

ValveLink and Diagnostics for FIELDVUE Operations - 1752

This course is for technicians, engineers and others responsible for installation, calibration and diagnostics for DVC FIELDVUE instruments and software. The primary focus of this course is to provide a comprehensive experience in managing digital valve controllers using the ValveLink software. This is a continuation course for course 1751

Available on demand

Systems

7017	DeltaV Implementation II	Leicester UK	10Jun/4Nov
7009	DeltaV Implementation I	Leicester UK	14Jan/25Feb/18Mar/15Apr/13May/17Jun/12Aug/9Sep/21Oct
7012	DeltaV Operator Interface for Continuous Control	Leicester UK	5Mar
7016	DeltaV Systems Batch Implementation	Leicester UK	18Feb/3Jun/15Jul/2Sep
7018	DeltaV Hardware & Troubleshooting	Leicester UK	7Jan/11Feb/11Mar/8Apr/29Apr/20May/24Jun/22Jul/19Aug/16Sep/14Oct/11Nov/25Nov
7020	AMS Device Manager Training	Leicester UK	14Jan/11Mar/13May/15Jul/9Sep/18Nov
7024	DeltaV Systems Administration XP/Server 2003	Leicester UK	28Jan/15Apr/23Sep
7032	Fieldbus Systems and Devices	Leicester UK	4Feb/29Apr/12Aug/28Oct
7303	DeltaV Safety Instrumented System (SIS) Maintenance	Leicester UK	8Apr/8Jul/14Oct
7305	DeltaV SIS Implementation	Leicester UK	7Jan/11Feb/18Mar/22Apr/20May/1Jul/5Aug/16Sep/21Oct

Flow Meters and Metering Systems

D3228	Ultrasonic Flow Meter - Operation and Maintenance	Stirling UK	11Feb/6May/12Aug/4Nov
D3250	FloBoss S600 Flow Computer - Operation and Maintenance	Stirling UK	11Mar/3Jun/9Sep/2Dec
D3270	Compact Prover - Operation and Maintenance	Stirling UK	13Feb/8May/14Aug/6Nov
D3009	Metering System Appreciation - System Design, Installation Practices and Applications	Stirling UK	13Mar/5Jun/11Sep/4Dec
D3109	Qualitative Measurement and Properties of Natural Gases - Principles and Applications	Stirling UK	18Feb/13May/19Aug/11Nov
D3119	Hydrocarbon Gas Flow Measurement Systems - Operation and Maintenance	Stirling UK	18Mar/10Jun/16Sep/9Dec
D3259	DanPac Measurement & Control System Introduction to Operation and Maintenance	Stirling UK	20Feb/15May/21Aug/13Nov
D3019	Hydrocarbon Liquid Flow Measurement Systems - Operation and Maintenance	Stirling UK	20Mar/12Jun/18Sep/11Dec

Gas Chromatographs

R4212	Operation and Maintenance of the Model 700 Gas Chromatographs	Dumyat UK	14Jan/5Feb/11Feb/12Mar/2Apr/9Jul/6Aug/29Oct
R4110	Introduction to Gas Chromatographs	Dumyat UK	14Jan/5Feb/On Demand
R4213	Operation and Maintenance of the Model 700XA Gas Chromatograph	Dumyat UK	19Feb/30Apr/30Jul/10Sep/10Dec
R4210	Operations and Maintenance of the Model 500 Gas Chromatograph	Dumyat UK	5Mar/9Apr/28May/16Jul/3Sep/5Nov
R4310	Model 500/1000A Gas Chromatographs	Dumyat UK	On Demand
R4311	Advanced Process Model 500 and Model 700 Gas Chromatographs	Dumyat UK	On Demand
R4330	Model 700 Advanced Gas Chromatographs	Dumyat UK	On Demand

Remote Automation Solutions

RA901	Config S600+ Pro	Pickering UK	On Demand
RA902	S600+ Operator	Pickering UK	On Demand
RA441	ControlWave Designer Fundamentals	Pickering UK	On Demand
RA331	ControlWave Configuration	Pickering UK	On Demand

Leicester

Emerson Process Management
 Meridian Business Park | Leicester LE19 1UX
 T: +440-116-282-2217
 F: +44 116 289 2896
UKSales@emersonprocess.com

Stirling, UK

Emerson Process Management Ltd
 Daniel Measurement and Control
 T: +44 (0)1786 433400
danielservice.europe@emerson.com

Dumyat

Emerson Process Management - Analytical
 Dumyat Business Park, Block 5, Unit 2, Bond Street
 FK10 2PB | Tullibody
Graham.Jones@emersonprocess.com

Pickering

Emerson Process Management
 Outgang Lane | Pickering | YO18 7JA
 T: +44 (0)1751 471864
Andrew.Crowther@emerson.com

© All Rights Reserved.

Educational Services Europe
eu.education@emerson.com
www.emersonprocess.com/education