



ESC | eKnow™ is ESC | University's newest online learning and performance support solution that enables around the clock delivery of skill-enhancing content to a subscriber's home or office computer. The technology provides an easy to use browser interface for user-paced sessions that deliver software, industry and regulatory information for new employee training, continuing education or Just-In-Time learning. Also included are: Instructions, Reference Library, Job Aids and Regulatory Aids.

Basic CEMS Training

All subscriptions include this section along with the applicable product line offerings.

CEMS Overview

1 hr Module

Learn the basics of a complete Continuous Emissions Monitoring System, including components and function of subsystems. Identify the relationship of the DAHS, its components and functions. Discuss typically regulated and monitored pollutant gases and how diluent gases and heat input are used in formulating reported data. Define Excepted Methods (Appendix D, E & G) units and how they compare to a "Full CEMS" unit. Review their benefits, differences in reporting data averages and their special instrument certification differences. Includes specifics related to both Part 75 and Part 60 regulations.

Data Controller Training

2 hr Module

Review the basic purposes, features, menu, security and logic of the ESC Data Controller. Discuss its relationship to the CEMS, its communication with the Polling Computer and what functions it accomplishes, such as flagging, math, alarms, status displays and triggering digital events.

Calibration Testing

1 hr Module

Learn more about calibration testing methods and requirements. You'll review the differences in initial certification requirements and ongoing daily requirements for operating your CEMS. Learn about calibration errors and how they are calculated, calibration schedule requirements and changing calibration gas (reference) values. Explore the differences in RATA tests, Linearity tests, 7-Day Drift tests, Cycle Response Time tests and daily calibrations.

Regulations Training for CEMS Technicians

1 hr Module

This course was designed for CEMS Technicians wanting a better understanding of the regulations behind their responsibilities. The content covers the reasoning behind daily calibration error tests, the basic requirements for

them, RATA and Linearity tests, as well as the performance specifications associated with each. The material also covers rules for valid data and how percent monitor availability (PMA) is calculated and its effect on reported data. Learners will also review the importance of recordkeeping for maintenance activities and how Appendix D units must perform fuel sampling and analysis.

ESC | StackVision User

Navigating the Software – ESC | StackVision

1.5 hr Module

Learn the basic architecture of and how to navigate ESC's next generation software, ESC | StackVision. Explore the new graphical system interface called CEMScope and learn how it is designed as the main source of system navigation, simplifying the search for current values, system status and historical data review. Become familiar with new functions and features such as DataLab, Consoles, Consoles Designer, ProcessNow and learn the purpose of each.

System Monitoring – ESC | StackVision

1.5 hr Module

Learn how to perform basic system monitoring functions using ESC | StackVision's easy-to-view custom Console. You'll review alarm theory and management; how to use the system for calibration testing, results and changes; the basics of system communications; how to view real-time displays, report generation, troubleshooting and interfacing with the data controller.

CEMScope & DataLab – ESC | StackVision

1.5 hr Module

Learn how to customize and fully apply CEMScope for easier navigation and use; quickly locate parameter and data controller properties, basic troubleshooting; and selecting and editing of parameter networks, average and calibration data. Students will also learn how to efficiently use DataLab by reviewing optional views, filtering data, exporting data to Excel spreadsheets and arranging data in the most manageable formats for the tasks at hand.

Understanding ProcessNow - ESC | StackVision

1.5 hr Module

Students will learn about the ProcessNow logic and features of ESC | StackVision. This unique feature replaces the need for laborious data quality assurance. Learn about ProcessNow sequences that are configured for complete, end-to-end processing of data. You will also gain knowledge about data review tools and learn how to generate EDRs.

QuickBytes (QB) – ESC | StackVision

15 minutes or less

QuickByte Modules are for Just-In-Time training. They give you focused help on a particular topic or task, quickly. Many modules contain animated demonstrations of the software and printable job aids associated with the topics are available in the Library.

Adding Custom Graphics to Consoles

How to use Console Designer to import your own custom graphics from image files into your custom console.

Administrative Tasks

Learn how to manage users, manage alarm popup filters, and administer views in ESC | StackVision.

Calibration Gas Management

Join the Q-Bees in an interactive overview and demonstration of entering the gas bottle records, placing them in-service and using the records to update reference values. (formerly Cylinder Management)

Calibration Gas Management - update

Explains StackVision's new Cal Gas Management features. Learn to manage calibration reference values and manage an optional cylinder inventory.

Data Controller Emulation within ESC | StackVision

Learn to emulate the Data Controller in ESC | StackVision to see a real-time display as if you were at the Data Controller.

Entering Linearity Records

Let the Q-Bees guide you through an overview of linearities and an interactive demonstration of how to enter new Linearity records using the helpful wizard.

Entering RATA Records

The Q-Bees introduce this overview and step-by-step interactive demonstration of how to enter RATA records using the helpful wizard.

Export to Excel

Learn to perform the steps to export data from the ESC | StackVision feature areas DataLab, Active Alarms, CalLab and Reports. You can export the grid data directly into a Microsoft Excel worksheet.

Fuel Systems - App. D & E Fuel Analysis

Presents the steps for using the Fuel Analysis Wizard to enter data for Appendix D and E fuel analysis.

Reports - Automatic Scheduling

Learn to use ESC | StackVision's Task Scheduler Wizard to automatically schedule your reports. You can schedule reports to be auto-printed or auto-emailed.

Setting Default Dates

Learn to use ESC | StackVision controls to set default dates and times. This eliminates the frustrating task of having to set the date every time you recall data.

ESC | StackVision 2.0 Enhancements

An interactive presentation spotlighting the performance and functionality enhancements included in ESC | StackVision 2.0. Discover how to put these enhancements to work for you.

Using Sum, Count and Average Functions

Demonstrates how to use Summaries in DataLab. Learn to easily view summary data at the bottom of one or all columns using icons to enable Sum, Count and Average functions.

Using Tab Groups (to manage windows)

Learn to use ESC | StackVision's horizontal and vertical window tab groups. This feature is useful when you want to display data in different intervals, Console Viewer and Designer together or calibration detail reference values and cylinder management all on.

Working with Views

Join the Q-Bees in this overview and step-by-step demonstrations of how to create, edit, save and organize your Views in the different feature areas of ESC | StackVision.

XML Elements and EDR Record Types

An interactive presentation on the new XML format reporting elements for emissions reporting required by EPA. Explains the relationship between XML elements and the EDR Record Types.

EMR for Windows User

The following sessions are available upon request for users of EMR for Windows:

Navigating the Software and System Monitoring – EMR

1.5 hr Module

Data QA for EMR

1.5 hr Module

Part 60 Tools for EMR

1.5 hr Module

OMP Operator Training for EMR

1 hr Module

Expert for UNIX User

The following sessions are available upon request for users of Expert for UNIX:

Navigating the Software and System Monitoring – Expert for UNIX

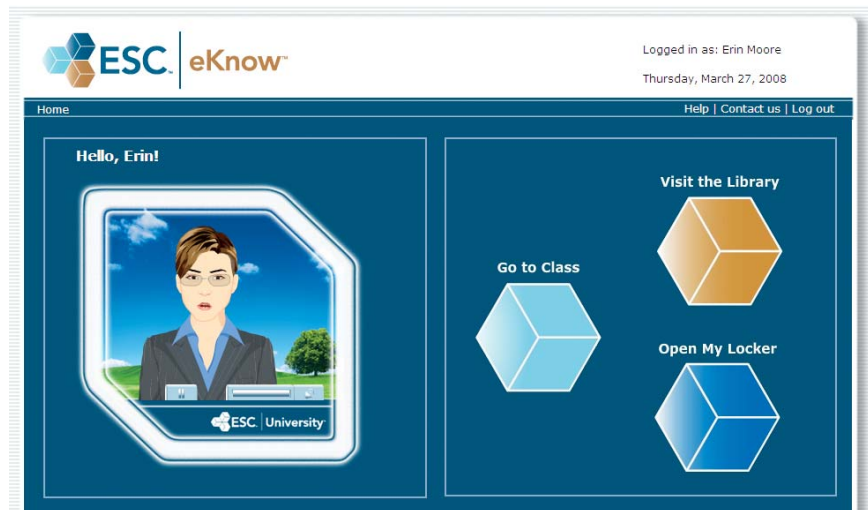
1.5 hr Module

Data QA for Expert for UNIX

1.5 hr Module

Part 60 Tools for Expert for UNIX

1.5 hr Module



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