

CIMPLICITY Advanced

Instructor-led

Topics

- Configure Client nodes (Viewers)
- Connect CIMPLICITY OPC Client to a 3rd party OPC Server
- Connect a 3rd party OPC Client to CIMPLICITY OPC Server
- Use variables with Linked Objects
- Configure ODBC Data Sources
- Create custom buttons for the Alarm Viewer
- Use the Advanced Viewer
- Work with Classes and Objects
- Configure Server Redundancy
- Use VisiconX objects to display data
- Use the DGR.

Course description

The HMI/SCADA – CIMPLICITY Advanced course will introduce the students to configuring Servers and Viewers, OPC Client and Server, Advanced Viewer, Database Logger & SQL Server Express, use variables with Linked Objects, Server Redundancy, Alarm Viewer custom buttons, Classes and Objects, VisiconX and Dynamic Graphic Replay (DGR). An experienced instructor is provided to guide the student using demonstrations and hands on lab exercises.

Who should attend?

This course is designed for Operators, Application Designers, and System Managers.

Are there any pre-requisites?

Participants should have a working knowledge of Windows operating systems. Participants must have completed the CIMPLICITY Fundamentals course.

Duration

24 hours

Delivery

Instructor-led, classroom, virtual or onsite

Part

IC684TR000301C

Suggested class size

10 Students

Course Schedule

Click [here](#) for the latest details and schedule.





Session 1

Client Viewer/Server Setup

Understand the client/server architecture, learn the key features in developing screens for Viewers, connect a client to a server and locally load screens on a viewer.

Project Security

Learn about the essential tools for securing the HMI/SCADA environment.

Introduction to OPC

Overview of what OPC is and how it is used.

Session 2

OPC Client

Overview of OPC Client, review supported features, configuration checklist – port, device & points, DCOM overview.

OPC Server

Overview of OPC Server, OPC Client/Server architecture, OPC Server UI, configuration and troubleshooting.

Advanced Viewer

Build a display to connect to an OPC Server directly, without creating server points.

Session 3

Database Logger and SQL Server

Use SQL Server as the data repository for CIMPLICITY.

Using Variables

Use variables to build your screens quickly and efficiently.

Session 4

Using VisiconX

Build data-rich screens with SQL-querying capabilities using these pre-built, wizard-configurable objects.

Script Execution

Build Screen Scripts, use the Event Manager to execute them and display script output visually.

Session 5

Classes and Objects

Plan a class, import a class, configure class attributes, configure data items, write class scripts, events and actions, create a CimEdit screen and create an Object.

Server Redundancy

Overview of Server Redundancy for Automatic and Manual, hardware and software requirements, configure redundancy and parameters and review the recovery procedures.

Session 6

Alarm Viewer—Custom Buttons

Modify the Alarm Viewer to use custom buttons for Alarm Management.

Digital Graphic Replay—DGR

Build screens to review and diagnose issues within your process. Learn how DGR gives you an instant replay of your process events in your HMI screens.

Supplemental

WebView

Historian Integration

Change Management Integration

EDGE Learning Portal

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GE Digital Education Services

Contact Information

GE Digital — Education Services

1 800 433 2682

Email: training.ip@ge.com

EDGE: [click here](#)

web: [click here](#)

About GE

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive.

GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

Contact Information

Americas: 1-855-YOUR1GE (1-855-968-7143)

gedigital@ge.com

www.ge.com/digital

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