

SOA Fundamentals

Instructor-led

Topics

- Overview of SOA and Connect. (SOA = Services-Oriented Architecture)
- Discuss the SOA architecture and deployment strategies
- Introduction to the Proficy Client
- SOA Data Communication Connectors (IGS, Historian)
- Introduction to resource data models
- Equipment Models
- Configure Displays
- SOA System Administration

Course description

SOA Fundamentals is a two-day course that focuses on elementary topics in SOA (aka Connect) and configuration of the Application Server. Participants will work with a sample system to build a modelled operation using resource models.

This course provides the essential ground work for other GE Digital technologies, such as Workflow, Vision, Historian, Plant Applications, Production Manager (PfMD), iFIX and CIMPLICITY.

Who should attend?

This course is aimed at those who will be designing, developing and deploying a GE Digital Connect Application Server in an industrial setting.

Are there any pre-requisites?

Suitable candidates will be experienced with Windows operating systems and industrial software systems (such as HMI/SCADA, Historian or MES systems). Database knowledge and familiarity with ISA S95 concepts are useful assets.

Part

44A728312-638

Delivery

Instructor-led, classroom, virtual or onsite

Duration

16 hours

Suggested class size

8 Students

Course Schedule

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





Session 1

Introduction to SOA

Define SOA and understand how it helps in the building of composite applications.
Describe the technologies and architecture used in SOA.
Describe its capabilities and uses.

SOA Architecture & Deployment

Describe the component architecture of the SOA platform.
Explain various design strategies and plan for deployment use cases and scenarios.
Plan for installation.

Session 2

Introduction to SOA Clients

Describe the functions and use cases of the standard Client.
Explore the tools available in the standard Client.
Describe the functions and use cases of Vision and other visualization add-ons.
Understand the differences between clients and their uses.

SOA Data Sources

Explain SOA data communications
Describe the available Service Providers
Configure the service provider for Historian
Configure communications for OPC servers

Session 3

Introduction to Data Models

Introduce SOA models
Build objects for Material, Personnel and Equipment Models
Navigate simple equipment models .

The Equipment Model

Configure equipment models and resources for use with SOA-connected applications.
Bind resources.

Session 4

The Personnel Model & Security

Build and Navigate a Personnel Model.
Use the Personnel Model to apply security and access .

EDGE Learning Portal

EDGE is Education@GE.

It's our learning platform hosted on the web.

Around the world. Around the clock.

[Visit the EDGE](#)

[Browse our public catalog](#)

[Request an account today](#)

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

©2015 General Electric. All rights reserved. *Trademark of General Electric. All other brands or names are property of their respective holders. Specifications are subject to change without