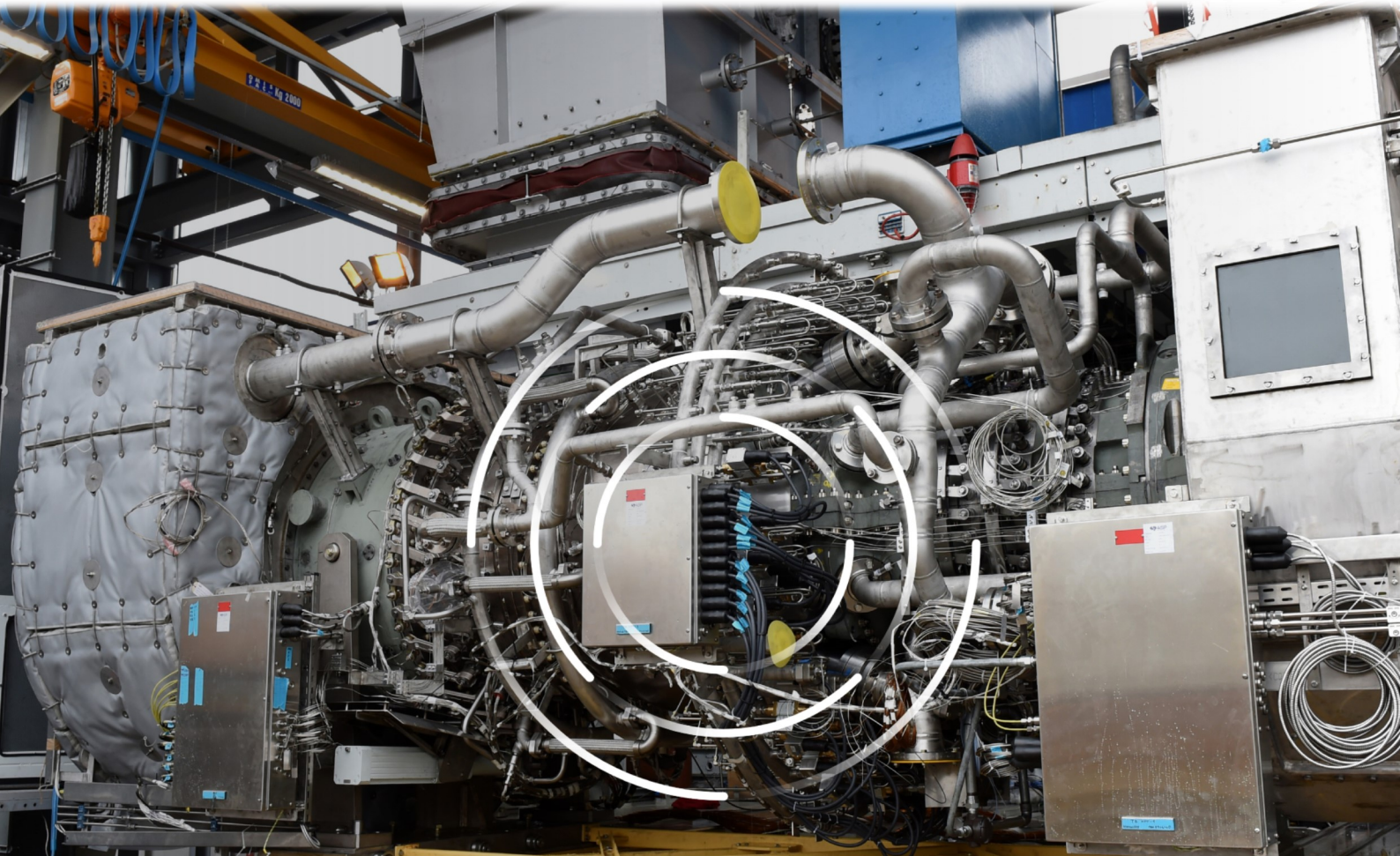


**BAKER  
HUGHES**  
a GE company



# Technical Training

Turbine Control Upgrades



# A WORLDWIDE PARTNER FOR OPERATIONAL EXCELLENCE

Baker Hughes a General Electric Company provides technical training on turbine Control Upgrades delivered by our experienced Instructors and Field Engineers. You and your teams will benefit from our comprehensive hands-on courses, starting with fundamentals and progressing to advanced troubleshooting for turbine controls.

BHGE technical training programs provide the knowledge and skills to maintain and control your machinery to optimize the performance of your equipment. BHGE can customize our training plan to best suit your team needs.

Overall we aim to maximize your return-on-investment with a focus on skills development for operators and maintenance personnel responsible for delivering turbine availability and reliability.



# POWER UP YOUR KNOWLEDGE

BHGE training centers provide a full range of training related to turbine Control Upgrades. These courses which encompass all aspects from fundamentals to in-depth solution and diagnostics are based on value-added pillars.



**EXPERIENCE** from our Controls Upgrade field engineers and technical experts. With more than 20 years of engineering and field experience, BHGE has built the structure of long-term skill development.



**TECHNICAL EXPERTISE** with 7 experienced trainers globally. Our team combines product installation, operation, maintenance or engineering experience with technical expertise, proven teaching skills and a commitment to knowledge transfer.



**HANDS-ON WORKSHOP** to guarantee operational excellence and to ensure trainings combine theory and practice. Workshops include practice with simulators and/or control panels. Class sizes are kept small ensuring students get the most out of training.



**CUSTOMIZED TRAINING** to fit with your needs and enhance your teams performance. Based on 12 standard offerings, courses can be customized to your teams experience (operators, managers, engineers...). Curriculums can be developed, including gap analysis, target objectives and skills development needs.



**UP-TO-DATE MATERIAL** to optimize learning. Course content and workshops are continually revised to reflect latest technologies, experience and local regulatory standards.



**COMPREHENSIVE OFFERS** to match your specific needs and what works best for your team: modular training at one of BHGE training centers or at your site, coaching program or skills development program.





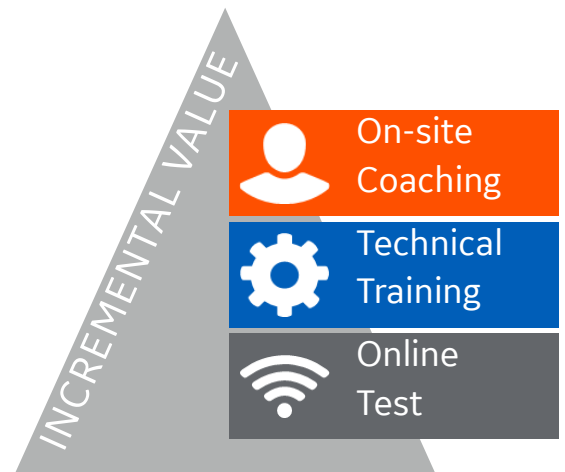
**Excellence is an ART won by training and habituation.  
We ARE what we repeatedly DO.  
Excellence then is not an act, but a HABIT.**

Aristotle

## COACHED PROGRAM

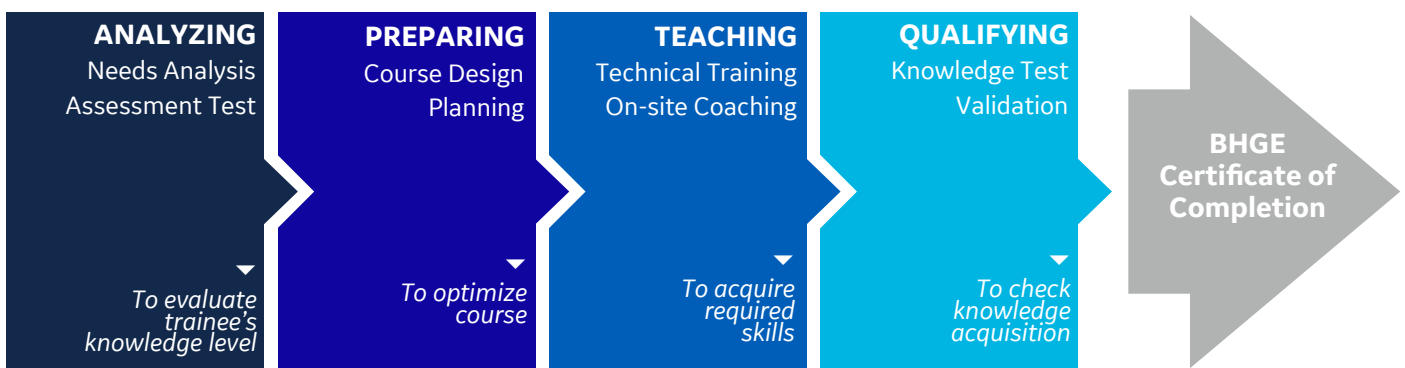
Empower employees by combining standard training and personalized coaching to improve their confidence, efficiency and operational excellence.

To get the most out of training, BHGE set up the coached program. Based on their knowledge, trainees will be oriented to the appropriate training program and once completed, will benefit from onsite coaching to leverage what they have learned in classroom and on their day-to-day job at site. This program brings incremental value and confidence to your plant personnel.



## SKILLS DEVELOPMENT PROGRAM

Bring your team to a higher confidence and competence level with our customer-specific program, based on proven technical competency matrix.



BHGE also works with you to develop a comprehensive Skills Development Program specifically designed to address your needs. It will help you to build sustainable competencies and maximize your return on investment.

The first step in our Skills Development Program is establishing a role-based competency matrix. This will be achieved by combining your organization's job descriptions and condition monitoring best practices from BHGE. The team will be assessed against competency matrix specific to their role to identify skills and competency gaps. Based on the skills gaps identified a roadmap to build sustainable competencies will be developed.

By using customized training content, our certified instructors will conduct training sessions at a BHGE training center or at your site. These power users equipped with plant-specific knowledge and advanced awareness of the systems will be able to extract maximum benefit from the systems deployed and improve the ROI.



# Controls Upgrade Courses



# MkVIe Upgrade Operators Introduction



## Duration

2 days

## Audience

- Operators & New Plant Personnel Introduction



CTRL05

## Objectives

- This course is intended to familiarize operator teams with MkVIe & HMI upgrade main components.
- Coaching with On-Site equipment, equipment walk-downs, and Question & Answer sessions.
- Class room learning by presentation slides.

## Program & Content

### Day 1 System Overview and Architecture

- Instructor Background
- Course Outline
- EQUIPMENT REVIEW:
- Mk6e System Overview
- ToolBoxST structure
- Equipment Walk Down

\*Additional topics can be added or subtracted by customer request. Courses beyond 2-days at added cost.

\*\*Simulators, Customer Software, & Laptop equipment can be added at additional cost

### Day 2 WorkStationST alarm viewer basics

- Cimplicity Screens Review
- Cimplicity Startup and Navigation
- Cimplicity Trends
- Historian PI

## Learning path

### Prerequisites

- None

### Skill Development

- Instruction & Labs
- MkVIe Operator Test
- Skills Checklist #1

### Next steps

- MkVIe Maintenance
- Skills Checklist #2

### Benefits



2 day familiarization , designed for minimal time impact to customer operations

# MKVie Upgrade Ops./Maint. Intermediate



## Duration

1 day Operator, 4 days Maintenance

## Audience

- Intermediate Operators
- Intermediate Maintenance Personnel



CTRL07

## Objectives

- Hands-on, simulated experience, with customers software for a controls upgrade.
- 1st day focus on Operators Basics for Cimplicity Screens and upgrade orientation.
- Mark Vie control hardware overview, process alarm troubleshooting and review of the control code.
- Review LVDT calibration, Cimplicity software, sequence editing & diagnostic alarm troubleshooting.
- Includes Simulators, Customer Software, & Laptop equipment labs and simulation.

## Program & Content

### Day 1 INTRODUCTION:

- Instructor Background
- EQUIPMENT REVIEW:
  - MK6e System Overview
  - ToolBoxST structure
  - Cimplicity Startup and Navigation
  - Cimplicity Trends
  - Historian PI

### Day 2 TOOLBOX ST TOOLS:

- Finder
- Watch windows
- Constants and variables
- Monitoring Software & Trenders
- MK6e I/O Pack Controls & PDM
- View & troubleshoot IO diagnostic alarms

### Day 3 MAINTENANCE:

- I/O Pack and Terminal board replacement
- Controller card replacement
- Permanent software changes
- Editing application software

- Configuring IO points
- LVDT calibration

### Day 4 HMI CIMPLICITY (BASIC):

- UDH-Networking
- Introduction to EGD
- Cimplicity Single Screen Troubleshooting
- Cimplicity Communications
- Cimplicity Single Screens
- Compiling and Downloading

### Day 5 TROUBLESHOOTING:

- Alarm tracing
- Add & modify alarms
- Viewing triplog
- Capture blocks & DDRs
- Trip History
- Course Closure

## Learning Path

### Prerequisites

- MkVie Operator Intro
- Skills Checklist #1

### Skill Development

- Instruction & Labs
- MkVie Maint. Test
- Skills Checklist #2

### Next steps

- MkVie Advanced
- Skills Checklist #3

### Benefits



Training Laptops, MKVie simulation kit, and customer SW interaction.



# MKVie Upgrade Maintenance Intermediate



## Duration

5 days

## Audience

- Intermediate Maintenance Personnel
- Intermediate Controls technicians and engineers



CTRL06

## Objectives

- Hands-on, simulated experience, with customers software for a controls upgrade.
- Mark Vie control hardware overview, process alarm troubleshooting and review of the control code.
- Review LVDT calibration, Cimplicity software, sequence editing & diagnostic alarm troubleshooting.
- Coaching with On-Site equipment, equipment walk-downs, and Question & Answer sessions.
- Includes Simulators, Customer Software, & Laptop equipment labs and simulation.

## Program & Content

### Day 1 INTRODUCTION:

- Instructor Background
- Course Outline
- EQUIPMENT REVIEW:
- MK6e System Overview
- ToolBoxST structure
- MK6e I/O Pack Controls
- PDM
- Monitoring Software

### Day 2 TOOLBOX ST TOOLS:

- Finder
- Watch windows
- Constants and variables
- Trenders
- View & troubleshoot IO diagnostic alarms

### Day 3 MAINTENANCE:

- IOPack and Terminal board replacement
- Controller card replacement

### (CONT. DAY 3)

- Permanent software changes

- Editing application software
- Configuring IO points
- LVDT calibration

### Day 4 HMI CIMPLICITY (BASIC):

- UDH-Networking
- Introduction to EGD
- Cimplicity Single Screen Troubleshooting
- Cimplicity Communications
- Cimplicity Single Screens
- Compiling and Downloading

### Day 5 TROUBLESHOOTING:

- Alarm tracing
- Add & modify alarms
- Viewing triplog
- Capture blocks & DDRs
- Trip History
- Course Closure

## Learning Path

### Prerequisites

- MkVie Operator Intro
- Skills Checklist #1

### Skill Development

- Instruction & Labs
- MkVie Maint. Test
- Skills Checklist #2

### Next steps

- MkVie Advanced
- Skills Checklist #3

### Benefits



Training Laptops, MKVie simulation kit, and customer SW interaction.

# MkVle Upgrade Advanced



## Duration

5 days

## Audience

- Advanced Control technicians and plant engineers
- Advanced Maintenance team

CTRL08

## Objectives

- Hands-on, simulated experience, with customers software for a controls upgrade.
- Enhanced troubleshooting skills for the purpose of trip reduction and recovery.
- Skills Development for maintaining optimum performance and availability.
- Advanced WorkStationST & Cimplicity communications.

## Program & Content

### Day 1 INTRODUCTION:

- Instructor background
- Student background and expectations
- Course schedule
- GE Documentation Overview
- GE Documentation Conventions
- Unit specific P&IDs
- A010 Unit control specifications
- Device summary

### Day 2 ALARM TROUBLESHOOTING SKILLS

- Process alarm troubleshooting skills
- Alarms tracing skills to field devices
- Discrete & Analog Blockware Analysis

### Day 3 DIAGNOSTIC ALARM TROUBLESHOOTING

- Trip Troubleshooting
- TripLogs and triggered trends
- Historical Alarms analysis
- IO Modules replacement

### Day 4 SOFTWARE SKILLS

- WorkStationST and Cimplicity communications
- Logic Forcing and signal tracing

### Day 5 COURSE OVERVIEW AND LABS Completion

- Equipment Walk Down
- Advanced Case Study
- Advanced Topics Q&A Session

## Learning path

### Prerequisites

- MkVle Operator Intro
- MkVle Maintenance Int.
- Skills Checklist #1 & #2

### Skill Development

- Instruction & Labs
- MkVle Adv. Test
- Skills Checklist #3

### Complete

- Skill Development Graduation
- Certificate of Completion

### Benefits

Training Laptops, MkVle simulation kit, and customer SW interaction.

# Excitation & Starter Upgrade Courses





# EX2100e Upgrade Operators Introduction



## Duration

2 days

## Audience

Operators team Introduction



ELEC02

## Objectives

- Function and calibration of the standard excitation modules and auxiliary equipment,
- Software tools and options for each excitation system.
- Coaching with On-Site equipment, equipment walk-downs, and Question & Answer sessions.
- Class room learning by presentation slides.

## Program & Content

### Day 1 Introduction

- Instructor Background
- Student Background
- Class Expectations
- Exciter Overview
- Role of Excitation System
- Exciter Major Components
- Off Line Generator Fundamentals & Synchronizing
- Major Components of an Excitation System
- Generator Operation Off Line
- Excitation Off Line Protective settings
- Synchronizing

### Day 2 On Line Generator Operation & Shutdown

- Loading the generator
- Watts and VARs
- Generator On line curves
- On line exciter protection
- Description of PSS Operation (If applicable)

\*Additional topics can be added or subtracted by customer request. Courses beyond 2-days at added cost.

\*\*Simulators, Customer Software, & Laptop equipment can be added at additional cost

## Learning path

### Prerequisites

-None

### Skill Development

- Instruction & Labs
- Ex2100e Intro. Test
- Skills Checklist #1

### Next steps

- Ex21e Intermediate
- Skills Checklist #2

### Benefits



2 day familiarization , designed for minimal time impact to customer operations

# LS2100e Upgrade Operators Introduction



## Duration

2 days

## Audience

Operators and Maintenance team Introduction



ELEC01

## Objectives

- Covers LCI and the functions of the static start system using site drawings and system settings
- Coaching with On-Site equipment, equipment walk-downs, and Question & Answer sessions.
- Class room learning by presentation slides.

## Program & Content

### Day 1 Introduction

- Instructors Background
- Student Background
- Class Expectations
- Static Starter Overview
- Role of Static Starter System
- Static Starter Major Components

\*Additional topics can be added or subtracted by customer request. Courses beyond 2-days at added cost.

\*\*Simulators, Customer Software, & Laptop equipment can be added at additional cost

### Day 2 LCI Static Start

- Hardware overview
- LCI Software and familiarization
- Running the diagnostic tests
- Troubleshooting faults and alarms
- Instructor Q&A regarding new Ls2100e Upgrade

## Learning path

### Prerequisites

-None

### Skill Development

- Instruction & Labs
- Ls2100e Maint. Test
- Skills Checklist #1

### Next steps

- Skill Development Graduation
- Certificate of Completion

### Benefits



2 day familiarization , designed for minimal time impact to customer operations

# EX2100e Upgrade Maintenance Intermediate



## Duration

5 days

## Audience

Intermediate Maintenance team



ELEC02

## Objectives

- Hands-on, simulated experience, with customers software for EX2100e upgrade.
- Function, calibration of standard excitation modules, auxiliary equipment, software tools for excitation system.
- Basic startup checks, troubleshooting techniques on Generators, Excitation and Solid State Power Conversion Modules.
- Start up calibrate and troubleshoot the components level EX2100e Generator Excitation Systems.
- Includes Simulators, Customer Software, & Laptop equipment labs and simulation.

## Program & Content

### Day 1 Introduction

- Instructor Background
- Student Background
- Class Expectations
- Exciter Overview
- Role of Excitation System
- Exciter Major Components
- Off Line Generator Fundamentals & Synchronizing
- Major Components of an Excitation System
- Generator Operation Off Line
- Excitation Off Line Protective settings
- Synchronizing

### Day 2 On Line Generator Operation & Shutdown

- Loading the generator
- Watts and VARs
- Generator On line curves
- On line exciter protection
- Description of PSS Operation (If applicable)
- Classroom demonstrations of settings using trainer
  
- Exciter Hardware and Excitation Drawings

- Description of Exciter Hardware Components
- Recommended Maintenance of Exciter
- Local Keypad

### Day 3 Exciter Software

- Ethernet Connections
- GE Toolbox demonstration
- Navigating using toolbox
- Simulation of operating a generator
- HMI excitation screens

### Day 4 Troubleshooting and Maintenance

- Lockout and tag out
- General Troubleshooting Guidelines
- Fault Indications

### Day 5 Course Overview and Labs Completion

- Equipment Walk Down
- Advanced Case Study
- Advanced Topics Q&A Session

## Learning path

### Prerequisites

- Ex2100e Ops Intro

### Skill Development

- Instruction & Labs
- Ex2100e Maint. Test
- Skills Checklist #2

### Next steps

- Skill Development Graduation
- Certificate of Completion

### Benefits



Training Laptops, Ex2100e simulation kit, and customer SW interaction.



# EX2100e/LS2100e Upgrade Intermediate



## Duration

5 days

## Audience

Intermediate Maintenance Team Ex2100e & Ls2100e



ELEC03

## Objectives

- Hands-on, simulated experience, with customers software for EX2100e upgrade.
- Generator, Excitation, LCI and the functions of the Generator Protection Panel w/ site drawings & system settings
- Basic startup checks, troubleshooting techniques on Generators, Excitation and Solid State Power Conversion Modules.
- Start up calibrate and troubleshoot the components level EX2100e Generator Excitation Systems.
- Includes Simulators, Customer Software, & Laptop equipment labs and simulation.

## Program & Content

### Day 1 Introduction

- Instructors Background
- Student Background
- Class Expectations
- Exciter Overview
- Role of Excitation System
- Exciter Major Components
- Off Line Generator Fundamentals & Synchronizing
- Major Components of an Excitation System
- Generator Operation Off Line
- Excitation Off Line Protective settings Synchronizing
- Classroom demonstrations of settings using trainer

### Day 2 On Line Operation & Shutdown

- Loading the generator
- Watts and VARs

-Generator On line curves

- On line exciter protection
- Description of PSS Operation (If applicable)
- Classroom demonstrations of settings using trainer
- Exciter Hardware and Excitation Drawings
- Description of Exciter Hardware Components
- Recommended Maintenance of Exciter
- Local Keypad
- Print Reading Exercises
- Excitation Elementary drawings
- Excitation instruction manuals
- Classroom exercises

### Day 3 Exciter Software

- Ethernet Connections
- GE Toolbox demonstration
- Navigating using toolbox
- Simulation of operating a generator

-HMI excitation screens  
-Troubleshooting and Maintenance

- Lockout and tag out
- General Troubleshooting Guidelines
- Fault Indications
- Component Maintenance

### Day 4 LCI Static Start

- Hardware overview
- LCI Software main components and familiarization
- Running the diagnostic tests
- Troubleshooting faults and alarms

### Day 5 Generator Protection Panel

- Generator One Line drawing
- Generator Protection Panel elementary drawings
- Device function numbers
- Lockout relays
- Tripping schemes through the lockout relays

## Learning path

### Prerequisites

- Ex2100e Ops Intro, or
- Ls2100e Ops Intro

### Skill Development

- Instruction & Labs
- Ex2100e Maint. Test
- Skills Checklist #2

### Next steps

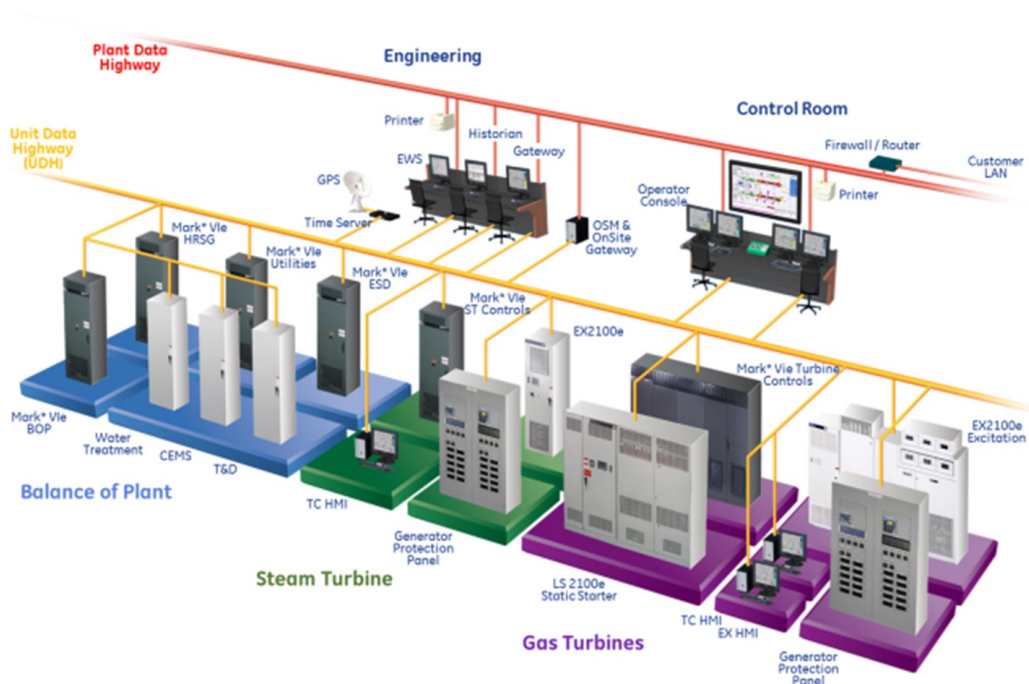
- Skill Development Graduation
- Certificate of Completion

### Benefits



Training Laptops, Ex2100e & LS2100e simulation kit, and customer SW interaction.

# Cyber, HMI, and Networking Upgrade Courses



# Cyber Security CAP Introduction



## Duration

3 days

## Audience

- Maintenance & Plant IT Introduction



SECST01

## Objectives

- Combination of technical classroom presentation and hands on
- Basic and Advanced functions of Cyber Security
- Enable site personnel to perform Cyber Asset Protection (CAP) updates and troubleshooting

## Program & Content

### Day 1 Introduction to Cyber Security Protection

- Instructors Background
- Student Background
- Cyber Protection: Industry Best Practices
- Patch Management Overview: OS, SW, AV's
- Anti-Malware, Virus Protection Management
- Testing & Validation Process, High-Level

\*Additional topics can be added or subtracted by customer request. Courses beyond 2-days at added cost.

\*\*Simulators, Customer Software, & Laptop equipment can be added at additional cost

### Day 2 CAP Patching & Event Recovery

- CAP Patching Instruction, Process
- CAP Patching, Hands-On Lab #1
- Event Recovery, Acronis, Backup & Recovery
- Event Recovery, Hands-On Lab #2
- Adv. CAP Troubleshooting Topics

### Day 3 Advanced Cyber Security Protection

- SecurityST Introduction
- SIEM, Splunk, Hands-On Lab #3
- Authentication, Access Control
- SecureSuite Compact
- Firewalls Intro and OpShield

## Learning path

### Prerequisites

-None

### Skill Development

- Instruction & Labs
- Cyber Security Test
- Skills Checklist #1

### Next steps

- Cyber SecurityST
- Skills Checklist #2

### Benefits



3 day familiarization on Core Cyber Security Protection topics



# Cyber SecurityST Intermediate



## Duration

5 days

## Audience

- Intermediate Maintenance & Plant IT team



SECST02

## Objectives

- Combination of technical classroom presentation and hands on workshops
- Basic and Advanced functions of SecurityST system & CAP patching
- Enable site personnel to perform maintenance on SecurityST and integration of HMI & network switch devices
- Includes Simulators, Customer Software, & Laptop equipment labs and simulation.

## Program & Content

### Day 1 Introduction to SecurityST

- Instructors Background
- Student Background
- Class Expectations
- SecurityST Hardware
- SecurityST Virtual Machines

### Day 2 Virtual Machine (VM) Navigation

- CAP Patching Instruction, Process
- CAP Patching, Hands-On Lab #1
- Using the Virtual Client
- Logging into Virtual Machines
- Workshop 1, VM**
- Virtual machine navigation
- Logging on to AP1 & other VMs

### Day 3 Domain Controllers

- The basics of GE domain controllers and groups
- Performing administrative tasks in DC1
- Identify and modify domain policies

### -Workshop 2, DC1/DC2

- Setting up & Login a new user
- Suspending or deleting a user
- Account passwords, & assigned roles

### -Workshop 3, Domain Policies

- Domain policies & settings

### Day 4 AP1

- Setting up centralized virus management
- Setting up centralized backups
- Managing the CatTools application
- Managing application patches
- Workshop 4, AP1**
- Adding a new HMI, Installing Agents
- Configure Acronis Application
- Creating Acronis Backup Plans
- Sophos Application
- vCenter Protect & RADIUS Client
- Switch Configuration Backup
- Restoring from Backup
- System Recovery Disc

- Performing system recovery
- Installing monthly patch updates
- Sophos updates and console tasks

### Day 5 Cisco Switch Configuration

- Basics & switch configuration
- Workshop 5, Switch Config**
- Switch Backups
- Switch name change
- Turning ports on/off
- IP addresses, time source match
- MAC Address Filtering
- AP2, Splunk SIEM
- Splunk Applications

## Learning path

### Prerequisites

- Cyber Security Intro

### Skill Development

- Instruction & Labs
- SecurityST Test
- Skills Checklist #2

### Next steps

- CompTIA Networking
- Skills Checklist #3

### Benefits



Training Laptops, SecurityST simulator, and customer SW interaction.

# HMI Upgrade Introduction



## Duration

3 days

## Audience

- Operators and Maintenance team Introduction
- Customer HMI Upgrades



HMI

## Objectives

- Hands-on, simulated experience, with customers software for a HMI upgrade.
- Provides ops & maintenance team with required knowledge to new HMI software and features
- Training Laptops with customer Simulated software and graphics

## Program & Content

### Day 1 Cimplicity Training

- Cimplicity Startup and Navigation Lab #1
- GT start-up and synchronization Lab #2
- WorkStationST Alarm viewer basics Lab #3
- ToolBoxST Basics
- Workstation ST Basics

### Day 2 Trender Files Training

- Trender Lab #4
- Alarm Tracing Lab #6
- Troubleshooting Cimplicity Screens Lab #7
- Viewing Trip Log Data

### Day 3 UDH Networking Training

- Mark VIe
- Cimplicity Communications
- Cimplicity Screen Editing Lab #8
- Adding Cimplicity Screen Navigation Lab #9
- HMI Backup

## Learning path

### Prerequisites

-None

### Skill Development

- Instruction & Labs
- HMI Maint. Test
- Skills Checklist #1

### Next steps

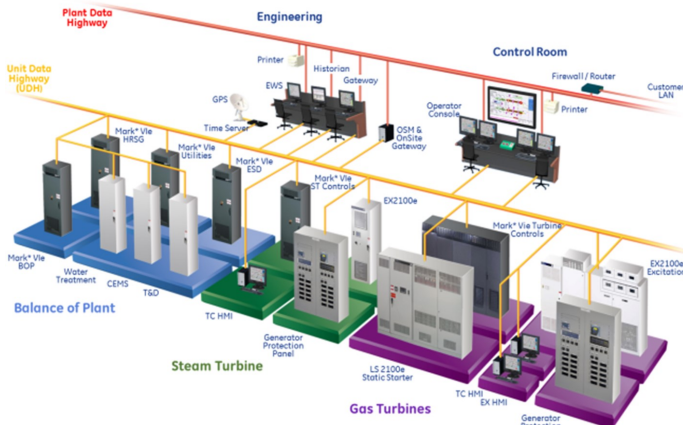
- MkVIe Maintenance
- Cyber SecurityST

### Benefits



Training Laptops, and customer SW. Designed for minimal time impact to customer plant team

# Networking Upgrade Introduction



Duration

5 days

Audience

- Maintenance & Plant IT team Introduction



NET01

## Objectives

- Combination of technical classroom presentation and hands on workshops
- Basic functions of Networking systems
- Introduction to site personnel for theory of networks

## Program & Content

### Day 1 Introduction to Networking

- Instructors Background
- Intro to OSI Model
- Network Types and Config
- Data Transmission
- Media: Copper, Fiber, Noise
- Wireless Networking Devices

### Day 2 Networks and Hardware

- Topologies
- Logical & Ethernet Networks
- VLANs
- TCP/IP Addressing
- TCP/IP Protocol
- IPV4 & IP & IPV6 Addressing
- Delivery

### Day 3 Routers

- Static Routing
- Dynamic Routing
- TCP/IP Services
- Assigning IP Addresses
- DNS (Domain Name Services)
- Command & Utilities

- TCP/IP Protocols
- WANS
- WAN Introduction
- WAN Connectivity

### Day 4 Network Management

- Network Monitoring
- Configuration Documentation
- Network Performance
- Network Security:
- Vulnerabilities
- Threats
- Authentication
- Encryption

### Day 5 Network Troubleshooting

- Troubleshooting Models
- Troubleshooting Utilities
- Hardware Troubleshooting Tools
- Common Issues
- Security Configuration Issues
- Troubleshooting Security Issues

## Learning path

### Prerequisites

-None

### Skill Development

- Instruction & Labs
- Networking Intro. Test
- Skills Checklist #1

### Next steps

- Networking Maint.
- HMI Upgrade Intro.
- SecurityST Inter.
- Skills Checklist #2

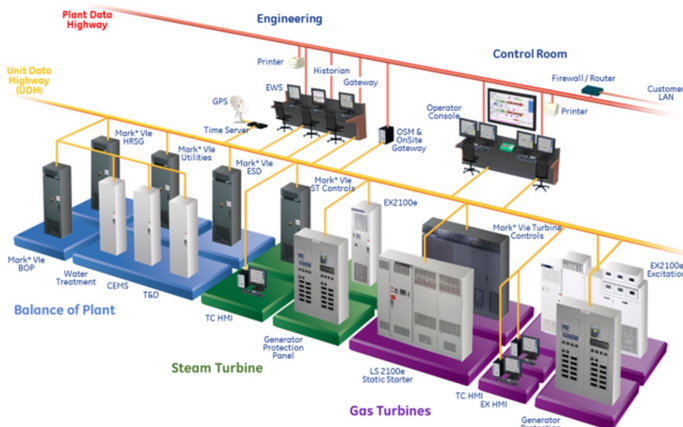
### Benefits



Training Laptops and switches using simulated SW and communications



# Networking Upgrade Maint. Intermediate



Duration

3 days

Audience

- Intermediate Maintenance & Plant IT team



NET02

## Objectives

- Combination of technical classroom presentation and hands on workshops
- Switch Configurations, Routing, and TCPIP Addressing
- Enable site personnel to perform maintenance and troubleshooting of networks

## Program & Content

### Day 1 Introduction to Networking

- Instructors Background
- Networking Architecture
- Network 3.1 and Network 4.0
- TCPIP Addressing
- TCPIP Protocol
- IPV4 Addressing & subnetting

### Day 2 Switches and Routing

- Routing Static
- Routing Dynamic
- Cisco Switches Introduction
- Switch Configuration
- Workshop 1, Switch Configurations**

### Day 3 Network Troubleshooting & Event Recovery

- Troubleshooting tools
- Communication Failures
- Mac address filtering
- Acronis Backup & Recovery
- Workshop 2, Backup and Recovery Plans**

## Learning path

### Prerequisites

- Networking Intro.
- Skills Checklist #1

### Skill Development

- Instruction & Labs
- Networking Maint. Test
- Skills Checklist #2

### Next steps

- Cyber SecurityST
- Skills Checklist #2

### Benefits



Training Laptops and switches using simulated SW and communications

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CSEU001

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