

UK TRAINING



Should you have any questions or need for a customised training,
please feel free to contact our office:

DISTECH CONTROLS SAS

Z.A.C. of Sacuny

558 avenue Marcel Mérieux

69530 Brignais – France

Email: trainingeurope@distech-controls.com

Website: <http://www.distech-controls.com>

www.distech-controls.com

Distech Controls SAS

ZAC de Sacuny — 558 avenue Marcel Mérieux, 69530 Brignais, France

Tel : +33 (0)4 78 45 01 23 / Fax : +33 (0)4 78 45 22 33

SIRET : 397 739 426 00039 / RCS : LYON B 397 739 426 / TVA : FR 47 397 739 426 / APE : 2651B

Distech Controls Training offers a comprehensive curriculum that addresses a wide scope of technical proficiencies, whether you're an experienced creative professional, a more entry level technician, or an experienced technician.

Our training offerings are flexible and provide installers and system integrators the knowledge and tools necessary to design, program, optimally deploy and operate Distech Controls solutions. We offer classroom training at our state-of-the-art facilities in Brignais, France and Birmingham UK. Also, we provide training at authorised system integrators regional offices, at the customer's location or at the customer's job site (on special request).

We provide a high level of professional, hands-on and applications-oriented technical training, and step-by-step lab material. The goal of each of our training sessions is to help you achieve the technical expertise necessary to support your team and your customers.

Training price includes the EC-Net demo licence (for EC-Net based training), drinks and lunches when at one of our training facilities.

Training Overview

Title	Prerequisites	Audience	Duration	Training N°
Eclipse Facilities EC-gfxProgram interface	Windows environment BACnet experienced	Integrators/ Programmers	5 days	TR-3001
Eclipse Facilities interface	Trained in ECY & gfx	Integrators/ Programmers	2 days	TR-3501
Designer & Dashboards	Distech controller file architecture	Integrators/ Programmers	2 days	TR-6611
EC-Net 4 EC-gfxProgram BACnet controllers	N4 Certified	Integrators/ Programmers	4 days	TR-8101
Niagara N4 Engineer Upskill	N4 Certified Experienced Engineer	Integrators/ Programmers	2 days	TR-8501

The content and rough format of each class is explained further within this document.

Course prices are available in the price list available at [Distech Controls PriceList_en](#). You can also contact your sales representative/contract manager for more information.

All training courses are preceded by individual preparatory work, Registration (subject to availability) is possible up to 72 hours before the start of the session, provided that the registration form is completed and sent to trainingeuropa@distech-controls.com.

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TR-3001 (5 days) Eclipse Facilities/ EC-gfxProgram Interface

This training course will allow the attendee to experience our product range, solutions, controllers, software tools and applications via an interactive classroom/online environment. Expect to dedicate this week-long course towards not only completing lab-based learning but also interacting live with our solutions with other students and your instructor.

At the end of the training, the trainee will be able to:

- Select and install an Eclipse Facilities controller:
ECY-S1000, ECY- 450, ECY-303, ECY-PTU, ECY-VAV, ECY-STAT, APEX
- Discover Distech Controls hardware using xpressNetwork Utility.
- Configure the Eclipse Facilities controller (hardware & firmware) using the configuration wizard of xpressNetwork Utility or the Web Browser Interface.
- Generate EC-gfxProgram code using Builder, our on-line simplified engineering workflow tool.
- Understand the Master/Slave configuration from the Builder EC-gfxProgram code output.
- Understand the DC Space/Resense solution developed by Distech Controls (One controller to manage the HVAC terminal + lighting + blinds + multi-sensor).
- Select the appropriate Eclipse Facilities controller based on the requirements of the project.
- Create and manage a BACnet IP network architecture.
- Program a strategy using the EC-gfxProgram software interface.
- Configure network communication between controllers.
- Configure alarms, histories, and schedule using the EC-gfxProgram interface.
- Integrate other protocols such as Modbus and Mbus.
- Experience the advantages offered by the Eclipse Facilities OS/UI.

Example of a Training Day:

Times are flexible and dependant on pace of class - (European Standard time)

09:00	12:00	Trainer	Presentations, Labs and Q&A
12:00	13:00	-	Lunch
13:00	16:30	Trainer	Presentations, Labs and Q&A

The trainer will present and perform demonstrations as well as helping trainees complete the lab manual.

Each half-day will be punctuated by alternating presentations by the trainer and the completion of the exercises. The trainer will remain available to answer questions during the lab-work.

The trainer will regularly check-in/ask each participant if the concepts covered are understood, and if they are in line with the trainee expectations. There will also be a summary of the previous day each morning.

The exercises will be carried out on the trainee computers connected to the provided controllers.

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Trainee Equipment and Technical Requirements

Technical Requirements:

All sessions (Remote or Classroom)

Software:

Desktop, Laptop and Notebook: Full Admin privileges are required
Ability to disable any anti-virus and firewalls etc. must be available. Ability to download and interrogate your windows registry settings. Technical support can assist if you are unsure.
A space to work on the hard drive that is not connected to OneDrive or similar will be needed

Browser:

Chrome is recommended. Be sure to install the latest version of Chrome as your preferred browser.

Remote Session -

Internet Connection:

A reliable internet connection of 20Mbps or greater is required. To test your Mbps please go to: <https://fast.com/> and repeat this test 5 times it should average above 20mbps.
Note that a wired connection should yield better results.

Equipment:

Built in Microphone or external microphone
Dual Monitors or use your TV as a 2nd monitor (one to see the LIVE instructor and another for hands on with solutions).
Camera if you would like to share your video (recommended).

Qualification Pre-Requirements:

This course is open to anyone however, to get the most from the content, it is strongly recommended that all attendees have experience of electrical theory, IP, BACnet, controls theory and x86 system architecture. If the proposed delegate has no experience of any these fundamentals, they may struggle to understand the references throughout the course. Fundamentals are covered in the presentations, but only as a refresher; these concepts do not form part of the training provided.

Pre-Training Preparation:

The training requires that your equipment and Distech accounts are ready at the start of day 1. As such, you will receive a procedure to follow to install/update the software and register on the Distech Controls website **before** the training session.

Day	Lab/Tasks	Equipment needed
DO	Website subscription Software Center downloads complete Forum subscription Learning Portal access <ul style="list-style-type: none">On Boarding module completion (mandatory) Builder access VPN client configured (remote training only)	Computer Internet access

Course Outline :

Day 1	Topic	Equipment needed
D1 AM	<p>Class Introductions/Expectations <i>The trainer will be able to adapt the pace and content of the training as well as the accompaniment according to the trainees' expectations.</i></p> <p>Web-resources presentation Forum and learning portal Check Installed software</p> <p>Introducing Distech Controls Eclipses controllers</p> <p>IP Architecture – BACnet Architecture recap</p> <p>xpressNetwork Utility</p> <p>Eclipse Facilities Web-UI: <ul style="list-style-type: none"> Settings and basic configuration </p> <p>Builder - Build a Fan Coil</p>	ECY-TU-203
D1 PM	<p>Commission your Fan Coil controller</p> <p>xpressNetwork Companion mobile app</p> <p>Master/Slave Configuration with EC-gfxProgram code from Builder</p> <p>DC Space/Resense concept: <ul style="list-style-type: none"> Subnet Configuration ECx light ECx Blind (optional) Room sensor devices </p>	ECY-TU-203 Resense Room Devices

Day 2	Topic	Equipment needed
D2 AM	<p>Summary of Previous Day</p> <p>Resense/DC Space: <ul style="list-style-type: none"> Subnet Configuration ECx light / ECx Blind (optional) Unitouch MS-BLE/Uniwave configuration Eclipse Mobile application </p>	ECY-TU-203 Resense Room Devices
D2 PM	<p>Master/Slave setup</p> <p>Maintenance Visits: <ul style="list-style-type: none"> Upload Synchronization Batch Backup </p> <p>SSO/RADIUS</p> <p>Introduction to EC-gfxProgram</p> <p>First Evaluation Quiz</p>	ECY-S1000 ECY-TU-203 Resense Room Devices

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Day 3	Topic	Equipment needed
D3 AM	<p>Summary of Previous Day</p> <p>Builder:</p> <ul style="list-style-type: none"> • ECY-S1000 Selection tool • Generate AHU code package <p>S1000/APEX Configuration and Setup:</p> <ul style="list-style-type: none"> • I/O connectors & EC-gfxProgram interface • Commissioning • Configuring HWIO • BACnet Objects / Internal Blocks • OAT Compensation Circuit Example Code 	ECY-APEX/ ECY-S1000
D3 PM	<ul style="list-style-type: none"> • PID & Tuning/Heating/Cooling Code • Thermostat/Hysteresis Control • Custom blocks • Conditional Custom Blocks <p>Backup Management; EC-gfxProgram Code and Full Controller Image</p>	ECY-APEX/ ECY-S1000

Day 4	Topic	Equipment needed
D4 AM	<p>Summary of Previous Day</p> <p>BACnet System Time Management</p> <p>Schedules/Calendars</p> <p>Trend Logs</p> <p>Alarms:</p> <ul style="list-style-type: none"> • Point Config • Notification Classes • Destinations 	ECY-APEX/ ECY-S1000
D4 PM	<p>Connectivity (using EC-gfxProgram/ Web interface)</p> <p>Network Values and Remote Objects</p> <p>Modbus</p> <p>Mbus</p>	ECY-APEX/ ECY-S1000

Day 5	Topic	Equipment needed
D5 AM	Summary Eclipse Facilities Web UI: <ul style="list-style-type: none"> • Packages • Site Tree • Dashboards • User Management Horyzon/Eclipse Display/Command <ul style="list-style-type: none"> • Atrius Demonstration 	ECY-APEX/ ECY-S1000
D5 PM	Course Summary/Recap/Q&A Backup Management. Files to store. Getting the Most from Technical Support Second Evaluation Quiz & Survey	ECY-APEX/ ECY-S1000

This approximates how the session will run; actual order of the topics may alter depending on the needs of the class.

If you feel like there is something you want to make sure we cover on the course, then discuss this with the trainer to see if it is something we can add to this to make sure you gain what you expect from the training.

An evaluation will be carried out for each attendee as well as a feedback form offered to allow us to constantly improve and meet your needs.

We look forward to seeing you in the class!

TR-3501 (2 days)

Eclipse Facilities Interface and Updates

This course is designed as an update for Distech-experienced engineers for our new products, solutions, controllers, software tools and applications via an interactive online environment. In this training session the attendee will experience and interact with the new “Building Intelligence” software platform through hardware provided in our training room or remote in a Teams session and our VPN.

At the end of the training, the trainee will be able to:

- Commission Eclipse Facilities controllers using xpressNetwork Utility
- Navigate the Eclipse Facilities Web-UI
- Configure and discover BACnet, Mbus, and/or modbus controllers
- Define the site and build the Site/Equipment Tree
- Define and create Dashboards
- Open and configure the new elements of the EC-gfxProgram software interface
- Open and navigate the Designer software interface
- Configure Atrius Facilities connection
- Demonstration of Containerization using the “ECY-HUB” from Docker Hub

Example of a Training Day:

Times are flexible and dependant on pace of class - (European Standard time)

09:00	12:00	Trainer	Presentations, Labs and Q&A
12:00	13:00	-	Lunch
13:00	16:30	Trainer	Presentations, Labs and Q&A

The trainer will present and perform demonstrations as well as helping trainees complete the lab manual.

Each half-day will be punctuated by alternating presentations by the trainer and the completion of the exercises. The trainer will remain available to answer questions during the lab-work.

The trainer will regularly check-in/ask each participant if the concepts covered are understood, and if they are in line with the trainee expectations. There will also be a summary of the previous day each morning.

The exercises will be carried out on the trainee computers connected to the provided controllers.

Trainee Equipment and Technical Requirements

Technical Requirements:

All sessions (Remote or Classroom)

Software:

Desktop, Laptop and Notebook: Full Admin privileges are required
Ability to disable any anti-virus and firewalls etc. must be available. Ability to download and interrogate your windows registry settings. Technical support can assist if you are unsure.
A space to work on the hard drive that is not connected to OneDrive or similar will be needed

Browser:

Chrome is recommended. Be sure to install the latest version of Chrome as your preferred browser.

Remote Session -

Internet Connection:

A reliable internet connection of 20Mbps or greater is required. To test your Mbps please go to: <https://fast.com/> and repeat this test 5 times it should average above 20mbps.
Note that a wired connection should yield better results.

Equipment:

Built in Microphone or external microphone
Dual Monitors or use your TV as a 2nd monitor (one to see the LIVE instructor and another for hands on with solutions).
Camera if you would like to share your video (recommended).

Qualification Pre-Requirements:

This session is reserved for people who are already trained/experienced on ECY controllers and the EC-gfxProgram interface. First-principles of Distech controls will not be covered on this course and knowledge of the Distech Controls eco-system is not only assumed, but necessary.

Pre-Training Preparation:

The training requires that your equipment and Distech accounts are ready at the start of day 1. As such, you will receive a procedure to follow to install/update the software and register on the Distech Controls website **before** the training session.

Day	Lab/Tasks	Equipment needed
DO	Website subscription Software Center downloads complete Forum subscription Learning Portal access <ul style="list-style-type: none">On Boarding module completion (mandatory) Builder access VPN client configured (remote training only)	Computer Internet access

Course Outline :

Day 1	Topic	Equipment needed
D1 AM	<p>Introduction/ Everyone's expectations. <i>The trainer will be able to adapt the pace and content of the training as well as the accompaniment according to the trainees' expectations.</i></p> <p>Builder Update /Tool Selection</p> <p>APEX Connection (Factory Settings/XNU) Packages/Licence/Resources Generic Configuration (Time Zone/...) Network Configuration</p> <p>EC-gfxProgram new features Network Values and Remote Objects</p>	Eclipse facilities controllers
D1 PM	<p>Connectors</p> <ul style="list-style-type: none"> BACnet <ul style="list-style-type: none"> Port/network configuration Policies Add remote devices & points Mbus <ul style="list-style-type: none"> Port/network configuration Add remote devices & points Modbus <ul style="list-style-type: none"> Port/network configuration Add remote devices & points Subnet & IO Weather <p>Create a Site</p> <ul style="list-style-type: none"> Building/Floor/Equipment Dashboard for local Device (AHU) Dashboard for remote device (TU) Designer (3Dimages) Relativisation 	Eclipse facilities controllers

Day 2	Topic	Equipment Needed
D2 AM	Summary Dashboard for Floor Plan Zone/Layers/Hyperlink Dashboard Welcome Page (General info) Users: Welcome page & users rights	Eclipse facilities controllers
D2 AM	Containerization/ECY-HUB Docker Rest API access Horizon (Optional) Atrius Facilities Evaluation Quiz& Survey	Eclipse facilities controllers

This approximates how the session will run; actual order of the topics may alter depending on the needs of the class.

If you feel like there is something you want to make sure we cover on the course, then discuss this with the trainer to see if it is something we can add to this to make sure you gain what you expect from the training.

An evaluation will be carried out for each attendee as well as a feedback form offered to allow us to constantly improve and meet your needs.

We look forward to seeing you in the class!

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TR-6611 (2days)
Designer & Dashboards

This training course will allow the attendee to experience our Eclipse Designer software interface via an interactive classroom/online environment.

Expect to dedicate this week-long course towards not only completing lab-based learning but also interacting live with our solutions with other students and your instructor.

At the end of the training, the trainee will be able to:

- Prepare a *gfx* code for graphical creation Designer
- Create a Site Tree
- Create a graphical interface based on the dcLibrary model
- Understand the principles of Layouts, Positioning & Size
- Create your own library and widgets
- Relativise widgets
- Navigate between graphic pages
- Create a template
- Manage backups
- Set Dashboards

Example of a Training Day:

Times are flexible and dependant on pace of class - (European Standard time)

09:00	12:00	Trainer	Presentations, Labs and Q&A
12:00	13:00	-	Lunch
13:00	16:30	Trainer	Presentations, Labs and Q&A

The trainer will present and perform demonstrations as well as helping trainees complete the lab manual.

Each half-day will be punctuated by alternating presentations by the trainer and the completion of the exercises. The trainer will remain available to answer questions during the lab-work.

The trainer will regularly check-in/ask each participant if the concepts covered are understood, and if they are in line with the trainee expectations. There will also be a summary of the previous day each morning.

The exercises will be carried out on the trainee computers connected to the provided controllers.

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Trainee Equipment and Technical Requirements

Technical Requirements:

All sessions (Remote or Classroom)

Software:

Desktop, Laptop and Notebook: Full Admin privileges are required
Ability to disable any anti-virus and firewalls etc. must be available. Ability to download and interrogate your windows registry settings. Technical support can assist if you are unsure.
A space to work on the hard drive that is not connected to OneDrive or similar will be needed

Browser:

Chrome is recommended. Be sure to install the latest version of Chrome as your preferred browser.

Remote Session -

Internet Connection:

A reliable internet connection of 20Mbps or greater is required. To test your Mbps please go to: <https://fast.com/> and repeat this test 5 times it should average above 20mbps.
Note that a wired connection should yield better results.

Equipment:

Built in Microphone or external microphone
Dual Monitors or use your TV as a 2nd monitor (one to see the LIVE instructor and another for hands on with solutions).
Camera if you would like to share your video (recommended).

Qualification Pre-Requirements:

This course is open to anyone however, to get the most from the content, it is strongly recommended that all attendees have experience of electrical theory, IP, BACnet, controls theory and x86 system architecture. If the proposed delegate has no experience of any these fundamentals, they may struggle to understand the references throughout the course. Fundamentals are covered in the presentations, but only as a refresher; these concepts do not form part of the training provided.

Pre-Training Preparation:

The training requires that your equipment and Distech accounts are ready at the start of day 1. As such, you will receive a procedure to follow to install/update the software and register on the Distech Controls website **before** the training session.

Day	Lab/Tasks	Equipment needed
DO	Website subscription Software Center downloads complete Forum subscription Learning Portal access <ul style="list-style-type: none">On Boarding module completion (mandatory) Builder access VPN client configured (remote training only)	Computer Internet access

Course Outline :

Day 1	Topic	Equipment Needed
D1 AM	<p>Class Introductions/Expectations <i>The trainer will be able to adapt the pace and content of the training as well as the accompaniment according to the trainees' expectations.</i></p> <p>Distech Controls solutions presentation (reminder) EC-gfxProgram : Presentation of the Central Plant Experience Box</p> <p>Define the points of the graph Define the remote controllers (Remote Device) Define the Site Tree</p> <p>dcLibrary Project</p> <p>Layout page and Tree structure Alarm page Trends page Schedule Page</p>	ECY-TU-203
D1 PM	<p>dcLibrary widgets</p> <p>Create a graphic page *.dg5 with Designer. Layout, Position & Wrap Points view Points bindings</p> <p>Create / Modify a widget. Custom palette</p> <p>Backup (partial and full)</p>	ECY-TU-203 Resense Room Devices

Day 2	Topic	Equipment Needed
D2 AM	<p>Summary of Previous Day</p> <p>Dataflow usage Callout, repeater, relativisation Table management Backup management</p> <p>User & Welcome page</p>	ECY-TU-203 Resense Room Devices
D2 PM	<p>Horyzon/ EC-Display</p> <p>Eclipse Facilities environment</p> <p>Dashboard Dashboard & Designer EC-Net and Designer (Optional)</p> <p>Questions</p> <p>Certification & Evaluation & Survey</p>	ECY-S1000 ECY-TU-203 Resense Room Devices

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TR-8101 (4 days)
EC-Net 4 EC-gfxProgram BACnet controllers

This training course will allow the attendee to experience our product range, solutions, controllers, software tools and applications via an interactive classroom/online environment. Expect to dedicate this week-long course towards not only completing lab-based learning but also interacting live with our solutions with other students and your instructor.

At the end of the training, the trainee will be able to:

- Select and install an Distech controller:
- ECB controller, Eclipse controller, APEX controller, EC-BOS controller
- Configure and install Software on computers. (EC-Net, xpressNetwork Utility, EC-gfxProgram..)
Discover Distech Controls hardware using xpressNetwork Utility.
- Create and manage a BACnet network architecture (IP and MSTP network)
- Select the appropriate ECB or ECY controller based on the nature of the project.
- Use Builder to create a *gfx* strategy. Debug it
- Program and/or modify a strategy using the EC-gfxProgram software interface.
- Configure network communication between controllers.
- Configure alarms, histories, and schedule using the EC-gfxProgram interface.
- Manage backups

Example of a Training Day:

Times are flexible and dependant on pace of class - (European Standard time)

09:00	12:00	Trainer	Presentations, Labs and Q&A
12:00	13:00	-	Lunch
13:00	16:30	Trainer	Presentations, Labs and Q&A

The trainer will present and perform demonstrations as well as helping trainees complete the lab manual.

Each half-day will be punctuated by alternating presentations by the trainer and the completion of the exercises. The trainer will remain available to answer questions during the lab-work.

The trainer will regularly check-in/ask each participant if the concepts covered are understood, and if they are in line with the trainee expectations. There will also be a summary of the previous day each morning.

The exercises will be carried out on the trainee computers connected to the provided controllers.

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Trainee Equipment and Technical Requirements

Technical Requirements:

All sessions (Remote or Classroom)

Software:

Desktop, Laptop and Notebook: Full Admin privileges are required
Ability to disable any anti-virus and firewalls etc. must be available. Ability to download and interrogate your windows registry settings. Technical support can assist if you are unsure.
A space to work on the hard drive that is not connected to OneDrive or similar will be needed

Browser:

Chrome is recommended. Be sure to install the latest version of Chrome as your preferred browser.

Remote Session -

Internet Connection:

A reliable internet connection of 20Mbps or greater is required. To test your Mbps please go to: <https://fast.com/> and repeat this test 5 times it should average above 20mbps.
Note that a wired connection should yield better results.

Equipment:

Built in Microphone or external microphone
Dual Monitors or use your TV as a 2nd monitor (one to see the LIVE instructor and another for hands on with solutions).
Camera if you would like to share your video (recommended).

Qualification Pre-Requirements:

This course designed for the experienced BMS engineer who has spent time on the EC-Net/Niagara environment. Beside this to get the most from the content, it is strongly recommended that all attendees have experience of electrical theory, IP, BACnet, controls theory and x86 system architecture. If the proposed delegate has no experience of any these fundamentals, they may struggle to understand the references throughout the course. Fundamentals are covered in the presentations, but only as a refresher; these concepts to not form part of the training provided.

Pre-Training Preparation:

The training requires that your equipment and Distech accounts are ready at the start of day 1. As such, you will receive a procedure to follow to install/update the software and register on the Distech Controls website **before** the training session. For this course, each attendee will require an EC-Net Demo licence, or a support package licence activated that will be provided by us.

Day	Lab/Tasks	Equipment needed
DO	Website subscription Software Center downloads complete Forum subscription Learning Portal access <ul style="list-style-type: none">On Boarding module completion (mandatory) Builder access VPN client configured (remote training only) Licence check	Computer Internet access

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Course Outline :

Day 1	Topic/Labs	Equipment needed
D1 AM	<p>Introduction/ Everyone's expectations <i>The trainer will be able to adapt the pace and content of the training as well as the accompaniment according to the trainees' expectations.</i></p> <p>Distech Website Resources Forum and learning portal Check Installed software</p> <p>Introducing Distech Controls solutions ECY controllers IP Architecture – BACnet Architecture</p> <p>IP Architecture & BACnet IP/MSTP architecture</p> <p>EC-Net Workbench SysHome/WorkbenchHome/DaemonHome Fundamentals (Platform; station) Creation and start EC-Net station. Station's Architecture (Services/Config)</p>	EC-BOS/APEX S1000/ECB-XX
D1 PM	<p>EC-BOS commissioning EC-Net Support Package</p> <p>Create BcpBACnet Newtork Integration of BcpBACnetDevice (ECB or ECY)</p> <p>Builder and generate gfx program (Terminal Unit)</p> <p>Launch gfx wizard on ECB controller EC-gfxProgram interface on ECB</p>	EC-BOS/APEX S1000/ECB-XX

Day 2	Topic	Equipment Needed
D2 AM	<p>Summary of Previous Day</p> <p>EC-gfxProgram interface (ECB)</p> <p>HWIO/BACnet objects (commandable/non commandable) Internal blocks / Comparator / Logic Heating curve / Linear Limit Code Library/ Custom blocks</p>	EC-BOS/APEX S1000/ECB-XX
D2 PM	<p>PID (Loop) Custom block/code snippet Conditional Custom blocks Schedule Alarm following BACnet profile.</p>	EC-BOS/APEX S1000/ECB-XX

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SIRET : 397 739 426 00039 / RCS : LYON B 397 739 426 / TVA : FR 47 397 739 426 / APE : 2651B

Day 3	Topic	Equipment Needed
AM	Summary of Previous Day Eclipse facilities controllers (BACnet IP) XpressNetworkUtility : EclipseConfiguration Create ECLYPSE Driver Network Integration of ECLYPSE devices EC-gfxProgram interface (Eclipse) Schedules Difference between ECB and Eclypes (EC-gfxProgram)	EC-BOS/APEX S1000/ECB-XX
PM	Eclipse as MS/TP_IP router Resources viewer/Favourites LCD screen / My DC Control (Optional) Backups management	EC-BOS/APEX S1000/ECB-XX

Day 4	Topic	Equipment Needed
AM	Summary of Previous Day BACnet Time Sync BACnet Alarm Management (ECY alarms and local alarms) Console recipient Alarm Portal Histories Import BACnet Trend Logs Create Trend Log locally Synchronisation	EC-BOS/APEX S1000/ECB-XX
PM	User management UserService Radius Server Licence management (EC-Net & Eclipse) Eclipse Facilities UI Demonstration Evaluation Quiz & Survey	EC-BOS/APEX S1000/ECB-XX

This approximates how the session will run; actual order of the topics may alter depending on the needs of the class.

If you feel like there is something you want to make sure we cover on the course, then discuss this with the trainer to see if it is something we can add to this to make sure you gain what you expect from the training.

An evaluation will be carried out for each attendee as well as a feedback form offered to allow us to constantly improve and meet your needs.

We look forward to seeing you in the class!

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TR-8501 (2 days) Niagara N4 Engineer Upskill Training

This training course is intended for experienced and/or qualified Niagara engineers who have a good level of experience with Niagara as a whole. This course assumes a level of knowledge as a pre-requisite that **must** be respected as there will not be the opportunity to go over the fundamentals of N4. The ideal attendee will also have knowledge of the Distech Eclipse range of controllers.

At the end of the training, the trainee will be able to:

- Use an advanced knowledge of Distech Controllers, and ability to operate advance features and function within N4
- Be able to identify the differences between Eclipse Platforms; licence and implement the Eclipse Facilities Framework appropriately.
- Understand the engineering and commissioning process for hardware and platform types: ECB controllers, Eclipse controllers, and the EC-BOS controller
- Configure and install Software on computers. (EC-Net, xpressNetwork Utility, EC-gfxProgram)
- Discover Distech Controls hardware using xpressNetwork Utility.
- Program and/or modify a strategy using the EC-gfxProgram software interface.
- Configure network communication between controllers.
- Configure alarms, histories, and schedule using the EC-gfxProgram interface.
- Manage backups
- Understand the capabilities of Eclipse Designer.

Example of a Training Day:

Times are flexible and dependant on pace of class - (European Standard time)

09:00	12:00	Trainer	Presentations, Labs and Q&A
12:00	13:00	-	Lunch
13:00	16:30	Trainer	Presentations, Labs and Q&A

The trainer will present and perform demonstrations as well as helping trainees complete the lab manual.

Each half-day will be punctuated by alternating presentations by the trainer and the completion of the exercises. The trainer will remain available to answer questions during the lab-work.

The trainer will regularly check-in/ask each participant if the concepts covered are understood, and if they are in line with the trainee expectations. There will also be a summary of the previous day each morning.

The exercises will be carried out on the trainee computers connected to the provided controllers.

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Trainee Equipment and Technical Requirements

Technical Requirements:

All sessions (Remote or Classroom)

Software:

Desktop, Laptop and Notebook: Full Admin privileges are required
Ability to disable any anti-virus and firewalls etc. must be available. Ability to download and interrogate your windows registry settings. Technical support can assist if you are unsure.
A space to work on the hard drive that is not connected to OneDrive or similar will be needed

Browser:

Chrome is recommended. Be sure to install the latest version of Chrome as your preferred browser.

Remote Session -

Internet Connection:

A reliable internet connection of 20Mbps or greater is required. To test your Mbps please go to: <https://fast.com/> and repeat this test 5 times it should average above 20mbps.
Note that a wired connection should yield better results.

Equipment:

Built in Microphone or external microphone
Dual Monitors or use your TV as a 2nd monitor (one to see the LIVE instructor and another for hands on with solutions).
Camera if you would like to share your video (recommended).

Qualification Pre-Requirements:

This course designed for the experienced BMS engineer who has spent time on the EC-Net/Niagara environment. Beside this to get the most from the content, it is strongly recommended that all attendees have experience of electrical theory, IP, BACnet, controls theory and x86 system architecture. If the proposed delegate has no experience of any these fundamentals, they may struggle to understand the references throughout the course. Fundamentals are covered in the presentations, but only as a refresher; these concepts to not form part of the training provided.

Pre-Training Preparation:

The training requires that your equipment and Distech accounts are ready at the start of day 1. As such, you will receive a procedure to follow to install/update the software and register on the Distech Controls website **before** the training session. For this course, each attendee will require an EC-Net Demo licence or a Support Pack licence activated that will be provided by us.

Day	Lab/Tasks	Equipment needed
DO	Website subscription Software Center downloads complete Forum subscription Learning Portal access <ul style="list-style-type: none">On Boarding module completion (mandatory) Builder access VPN client configured (remote training only) Licence check	Computer Internet access

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Course Outline :

Day 1	Topic	Equipment Needed
D1 AM	Class Introductions/Expectations <i>The trainer will be able to adapt the pace and content of the training as well as the accompaniment according to the trainees' expectations.</i> Web-resources presentation Forum and learning portal Check Installed software Introducing Distech Controls & Support Package Licensing	EC-BOS/APEX S1000/ECB-XX
D1 PM	Productivity Enhancing Tools Setup Station in EC-Net Set up Station in EC-BOS Creating Station offline Adding controllers/GFX point databases to N4 Configure networks (bcp and Eclipse) Device/router configuration: EC-BOS / Eclipse Network testing from router/interface Importing live controllers	EC-BOS/APEX S1000/ECB-XX

Day 2	Topic	Equipment Needed
D2 AM	Summary of Day 1 EC-gfxProgram interface : General Layout/HWIO config Coding examples Trend Logs, Schedules Alarms overview	EC-BOS/APEX S1000/ECB-XX
D2 PM	Network Values/Remote Objects Eclipse Facilities Eclipse Designer principles Atrius Facilities examples Evaluation Quiz & Survey	EC-BOS/APEX S1000/ECB-XX

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