

INTRODUCTION

The #6001 course has been developed to complete the Distech Controls Applications & Controllers Certification Program. This in-class training introduces and describes key concepts and knowledge about Distech Controls applications and controllers using the EC-Net^{AX} software, and provides the hands-on opportunities needed to firmly establish the proficiency required in today's competitive marketplace. Features related to both LONWORKS-based (ECL) and BACnet-based (ECB and ECLYPSE) programmable controllers (including the recently released x50-series LCD-based controllers) are covered in an easy and convenient method to provide the needed requirements to complete the Certification Program with confidence.

As part of this course, the Certification Program also includes a pre-requisite e-Training #601 presentation followed by a final examination that validates a working understanding of the key concepts and ensures Distech Controls Factory Certification. The precertification e-Training #601 is available online on SmartTrack and must be completed prior to attending the #6001 classroom training.

INFORMATION

COURSE DURATION	<ul style="list-style-type: none"> ■ 5 days (ends by approximately 4:00 PM on Friday)
CERTIFICATION PROGRAM	<ul style="list-style-type: none"> ■ Distech Controls Applications & Controllers Factory Certification
REQUIRED EQUIPMENT	<p>Company or personal laptop with:</p> <ul style="list-style-type: none"> ■ Wireless card ■ Windows 10, 8.x, 7 ■ Ability/rights to turn off Windows firewall ■ Admin rights to download/install software
REQUIRED SKILLS	<ul style="list-style-type: none"> ■ Functional working knowledge of Windows and PCs ■ Navigating the Windows and software architecture ■ Locating files within a ■ Using a mouse/keyboard ■ Downloading software ■ Following and executing a step-by-step procedure/process
PRE-REQUISITES	<ul style="list-style-type: none"> ■ Niagara^{AX} Certification ■ e-Training #601 (online access is provided with #6001 registration) with minimum of 70% on final exam ■ Software (EC-Net^{AX} and EC-gfxProgram) pre-installed ■ Latest Support Pack/Productivity Enhancement Tools pre-installed

HELPFUL ASSETS	<ul style="list-style-type: none">■ LONWORKS Network Design knowledge■ BACnet Network Design knowledge■ An understanding of basic programming logic■ Basic troubleshooting methods
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INTENDED AUDIENCE

- Network and Systems integrators
- Operations and maintenance engineers
- Energy management specialists
- Building automation systems installers
- Application Engineers

OBJECTIVES

Participants will:

- Discover where to find the information for downloads, updates and reference
- Troubleshoot common problems encountered while building applications
- Install specific files to and commission an EC-BOS
- Integrate with a Niagara^{AX} environment using EC-NET^{AX}
- Navigate the EC-gfxProgram user interface
- Create a program using the graphical programming interface (GPI), blocks, and tools of EC-gfxProgram
- Convert a program from LON to BACnet using the GFX conversion tool
- Use LONWORKS specific features to program an ECL series (32-bit) controller
- Use BACnet specific features to program an ECB series (32-bit) and an ECLYPSE controller
- Build an interactive graphic using the ENVYSION graphics suite
- Operate Distech' s latest ECL-/ECB-series controllers with LCD interface
- Operate peripheral devices such as an EC-Smart-View, Open-to-Wireless, and discrete sensors
- Modify an existing pre-engineered program
- Use the graphical interface for VAV pre-loaded applications
- Configure Smart Room Control (SRC) functionality

Overall Course Structure

DAY 1

- Information Sources Lab 1
- Commissioning an EC-BOS Lab 2
- Exploring the EC-gfxProgram interface N/A
- Getting started with LONWORKS controllers Lab 3
- Configuring Inputs/Outputs using Xpressgfx Points Lab 4
- Building a Fan-Coil Unit Project with EC-gfxProgram Lab 5

DAY 2

- Using a Wireless Temperature Sensor Lab 6
- AHU Project: Creating a Program on a LONWORKS controller Lab 7

DAY 3

- AHU Project (cont'd) Lab 7
- Configuring the X50 Series LCD Screen Lab 8
- Downloading and Using the Distech Mobile App (MyDC Controls) Lab 9
- Creating AX Proxy Points and Px Graphics in EC-NETAX Lab 10
- Building a Custom Toolbox in EC-gfx (optional) Lab 11
- Getting started with BACnet MS/TP controllers Lab 12
- Modifying an existing pre-engineered application in EC-gfx Lab 13
- Using VAV pre-loaded applications in EC-NetAX Lab 14

DAY 4

- EC-Smart-View sensor – exploring various uses Lab 15
- Configuring Smart Room Control Lab 16
- Configuring a BACnet IP (ECLYPSE) Controller Lab 17
- Using xPressNetwork Utility Lab 18
- AHU project: Converting a LON program for BACnet IP Lab 19
- Building Graphics in ENVYSION (TechStudio – Default Template) Lab 20
- Building Graphics in ENVYSION (xPress ENVYSION Template) Lab 21

DAY 5

- Building Graphics in ENVYSION (xPress ENVYSION Template) (cont'd) Lab 21
- Time Synchronization Lab 22
- Scheduling Lab 23
- Troubleshooting Tips ---

- Q&A Session / Test Preparation ---
- Certification Exam (55+ question multiple-choice exam) ---

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