

**Technical Training Services**  
Courses at a Glance

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Product Line	TAC I/A Series	Andover Continuum	TAC Vista	TAC I/NET	TAC Com-Trol
Course	<b>2301 IA Series R2 Operator - 2 days</b>	<b>2722 Continuum Configuration (Engineering) for HVAC - 4 days</b>	<b>2207 Operating a Vista LNS HVAC System - 3 days</b>	<b>2001 INET System Operation - 5 days</b>	<b>2351 TAC Control Technician's Course</b>
Who	Operators	Engineers, High Level Technicians	Operators	Operators	Engineers, Installation and service
Competency	Introductory	Introductory	Introductory	Introductory	Introductory
Specialty	HVAC	HVAC	HVAC	HVAC	Refrigeration
Prerequisites:	None	None	None	Pre course material	None
Overview	Operation of IA Series R2 System. Graphically monitoring and changing settings of a building's automation system. Provides a general overview of the IA Series System and brief overview of local building control systems such as LonWorks, BACnet and NETWORK 8000	Configuration of a Continuum HVAC system and is designed for those who will be planning, configuring and operating installations of the Continuum HVAC product line.	Operators with little or no experience with TAC Vista building automation system software. Operators will learn TAC Vista architecture, software installation, and basic system navigation and documentation.	Operation and administration of INET building systems. Includes introduction to basic HVAC system concepts, the INET controls system, its basic architectures, components, I/O points and the system addressing convention.	Installation, configuration and troubleshooting of Com-Trol Refrigeration Control Systems. Introduces a refrigeration technician who has little or no experience with the Com-Trol system to the hardware and Ezset programming software.
Course	<b>2302 WorkplaceTech Programming - 5 days</b>	<b>2732 - Andover Continuum Plain English Programming for HVAC - 4 days</b>	<b>2200 Introduction to Vista LNS Systems (Self-paced video course)</b>	<b>2009 INET CLAN HVAC Systems - 4 days</b>	<b>2353 TAC Crystals Technician's Course</b>
Who	Engineers	Engineers, High Level Technicians	Engineers, Service technicians, Sales	Engineers and Service Technicians	Engineers and Service technicians
Competency	Introductory	Experienced	Introductory	Experienced	Level 2
Specialty	HVAC	HVAC	HVAC	HVAC	Refrigeration
Prerequisites:	Pre course material	Course 2722	Online requirements	None	Course 2351
Overview	Operating and custom programming of IA Series MicroNet Building Automation Systems (LonWorks and BACnet controllers)	Programming and/or monitoring existing programs in a Continuum HVAC installation.	Self-paced, downloadable video course (5 hours). Provides knowledge of the recommended TAC Vista system architecture. Includes an overview of TAC Xenta hardware functions and features.	For project engineers and service technicians. Design and servicing of HVAC control system using the controller LAN controllers.	Installation and programming of Com-Trol Crystals Systems. Intended for technicians who will install, commission, and troubleshoot Crystals systems that control supermarkets.
Course	<b>2303 IA Series R2 Engineering - 5 days</b>	<b>2857 Continuum Service I - 4 days</b>	<b>2201 Vista LNS Systems - 4 days</b>	<b>2014 - INET SLAN Engineering and Service (HVAC) - 4 days</b>	
Who	Engineers	Service Technicians	Engineers	Engineers and Service Technicians	
Competency	Introductory	Introductory	Introductory	Experienced	
Specialty	HVAC	HVAC	HVAC	HVAC	
Prerequisites:	Pre course material	None	2200	2009	
Overview	Network engineering with the IA Series R2 (older generation) Niagara Framework software using WorkPlace Pro.	Service and maintenance of an Andover Continuum installation. Students learn the basics of the Continuum product, the operation of the Continuum workstation, how to isolate problems in the system and troubleshooting tools and techniques.	For project engineers and service technicians. Designing, programming, installing, commissioning and servicing a Vista LNS HVAC system. The course utilizes NL220 as the network management tool. Includes an overview of TAC Menta application programming tool and TAC Xenta controllers.	Design and programming of INET HVAC controls applications at the controller SUBLAN level.	
Course	<b>2303W Online IA Series R2 Engineering</b>	<b>3730 Continuum Configuration (Engineering) for Security - 4 days</b>	<b>2203 Vista Presentation System - 4 days</b>	<b>3014 INET Security Systems - 4 days</b>	
Who	Engineers	Engineers, High Level Technicians	Engineers	Engineers	
Competency	Introductory	Introductory	Introductory	Experienced	
Specialty	HVAC	Security	HVAC	Security	
Prerequisites:	Pre course material; online requirements	None	2201	None	
Overview	Network engineering with the IA Series R2 (older generation) software using WorkPlace Pro. Instructor led online course; content identical to 2303; 2 weeks long /4 sessions per week + self study	Configure and operate an Andover Continuum Security system. Designed for those who will be planning, configuring and operating installations of the Continuum Security product line.	For project engineers and service technicians. Covers the design of the Vista Workstation to prepare the site for operation, alarm management, graphic presentations, and trend data management by the end user. Using the workstation as a portal for servicing the system is also covered.	For project engineers and service technicians. Course covers the design and servicing of an INET access control system using SubLan security control units. Video badging and the integration of digital video systems is not covered.	
Course	<b>2304 IA Series R2 Service - 4 days</b>	<b>3731 Andover Continuum Plain English Programming for Security - 4 days</b>	<b>2222 INET to Vista System Conversions - 2 days</b>		
Who	Service engineers and technicians	Engineers, High Level Technicians	Engineers		
Competency	Introductory	Level 2	Experienced		
Specialty	HVAC	Security	Integration		
Prerequisites:	Pre course material	Course 3730	2203; INET experience		
Overview	Service I/A Series Niagara Framework installations and software using WorkPlace Pro. Includes maintenance and troubleshooting an installation.	Programming or monitoring existing programs at a Continuum Access Control Installation.	For project engineers and service technicians. Project planning, execution and servicing for the migration of an INET system to a Vista system. Includes the application of the Vista HMI to the INET networks and the expansion of the INET system with Xenta hardware.		
Course	<b>2305 IA Series G3 Engineering - 5 days</b>	<b>5733 Andover Continuum System Administration - 4 days</b>	<b>2204 Vista Webstation - Online</b>		
Who	Engineers	Engineers, System Administrators	Engineers		
Competency	Experienced	Advanced	Experienced		
Specialty	HVAC	General	Web Interface		
Prerequisites:	2302 and 2303 OR 2304	Course 2722 OR 3730	2201 & 2203		
Overview	Network engineering with the IA Series G3 (new generation) Niagara Framework software using WorkBench.	System level administration; includes administrator strategies and tools to Continuum building management systems. Details hardware and software requirements and advanced configuration topics and database management.	Instructor led online course available by request. Set-up enterprise-level, web browser-based operator access to a Vista HVAC system.		
Course	<b>2306 IA Series G3 Operator - 2 days</b>	<b>5865 Continuum BACnet Engineering - 4 days</b>	<b>2215 Xenta Servers and IP Controllers - 4 days</b>		
Who	Operators	Engineers	Engineers		
Competency	Introductory	Introductory	Experienced		
Specialty	HVAC	HVAC	Web interface/Integration		
Prerequisites:	None	None	2203		
Overview	Operation of IA Series G3 System. Graphically monitoring and changing settings of a building's automation system. Provides a general overview of the IA Series System and brief overview of local building control systems such as LonWorks, BACnet and NETWORK 8000	This course is intended for those who will be planning, configuring and operating installations of the Andover Continuum BACnet product line.	For project engineers and service technicians. Application of the Xenta 511 as a web-server, the Xenta 913 as a protocol translator and the Xenta 700s as IP controllers. The use of the XBuilder engineer tool is extensive.		
Course	<b>2310 - Online BACnet R2 Integration - 4 days</b>	<b>5783 Continuum Service II - 4 days</b>	<b>2250 Application Programming-Online</b>		
Who	Engineers and service technicians	Engineers, High Level Technicians	Engineers and Service Technicians		
Competency	Experienced	Advanced	Introductory		
Specialty	HVAC	General	HVAC		
Prerequisites:	2302 and 2303 OR 2304; online requirements.	2722 OR 3730	None		
Overview	Integrating and maintaining a BACnet system using WorkPlace Pro and Universal Network Controllers. Instructor led online course. 1 Week/3sessions + self-study and exercises.	This course is intended for those who will be planning the network design, installing, commissioning and maintaining a Continuum installation.	This course presents the Menta Application Programming Tool that is used to create HVAC applications in programmable controllers.		
Course	<b>2311S Online LON R2 Integration</b>	<b>4701 Continuum for Sales Engineers-3 days</b>	<b>4205 Vista Systems for Sales Personnel-3 days</b>		
Who	Engineers and service technicians	Sales Engineers	Employees and Partners Only		
Competency	Experienced	Introductory	Experienced		
Specialty	HVAC	General	Sales		
Prerequisites:	2302 and 2303 OR 2304; online requirements.	None	None		
Overview	Integrating and maintaining a LON network using WorkPlace Pro and Universal Network Controllers. Instructor led online course. 1 Week/3sessions + self-study and exercises.	This course is designed for the Continuum Sales Engineer who will be specifying architectures to support projects and who need to understand the features and benefits of the Continuum BMS System.	For sales personnel that must propose Vista solutions in response to specific requirements. Course provides technical information on applying the Vista product.		
Course	<b>2312 Online ASD R2 Integration - 3 days</b>				
Who	Engineers and service technicians				
Competency	Experienced				
Specialty	HVAC				
Prerequisites:	2303 OR 2304; online requirements.				
Overview	Integrating a Network 8000 ASD network using WorkPlace Pro and Universal Network Controllers. Self-study online course. Online lab exercises using training center equipment. May be taken concurrently with Course 2313				
Course	<b>2313 Online GCM R2 Integration</b>				
Who	Engineers and service technicians				
Competency	Experienced				
Specialty	HVAC				
Prerequisites:	2303 OR 2304; online requirements.				
Overview	Integrating a Network 8000 Global Control Module (GCM) network using WorkPlace Pro and Universal Network Controllers (UNCs). Instructor led online course. 1 Week/3sessions + self-study and exercises.				