



ETAPRO[®] ADMINISTRATOR and/or IT TRAINING



March 12–15
* May 6–10
* July 8–12
* September 9–13
November 12–15

Course Location:
Buffalo/Niagara Falls, NY

*1-day optional IT Training on Monday, as well as 1-1/2 days each of EtaPRO APR & VirtualPlant Training offered the following week



Course OBJECTIVES

Upon completing this course, students will understand how:

Administrator Training

- EtaPRO can meet their condition and performance monitoring needs.
- VirtualPlant™ is used with EtaPRO to model expected plant performance, both online and offline.
- VirtualPlant models are used to run parametric studies to examine the effect of changing plant conditions.
- EtaPRO advanced pattern recognition (APR) Concerns Viewer is used to address asset points that indicate abnormal behavior.
- EtaPRO data points are added, edited, or deleted.
- EPTrendSetter™ is used to benchmark plant performance.
- EPReporter™ is used to schedule custom reports built in Microsoft® Excel.
- EPLog™ is set up to create custom operations and maintenance logs.
- Screen Builder is used to create and modify custom screens.
- Diagnostic Builder is used to create and modify diagnostic flowchart to run both online and offline and used to create event- or time-based alerts to provide notification of a specific event based on user- defined criteria.
- EtaPRO configuration settings are modified on the Server and the Client.

Optional IT Training

- EtaPRO uses the historian and how compression affects data.
- Routine system back-ups of the databases are performed and what information is stored in those databases.
- Security is configured for EtaPRO applications.
- EtaPRO Server and Client applications are installed and upgraded.
- To troubleshoot causes of EtaPRO quality alarms.
- To examine EtaPRO database and text logs for root cause analysis.

Course DESCRIPTIONS

Administrator Training

This 3½-day course is a comprehensive introduction to the EtaPRO System. Numerous interactive exercises are used throughout the course to provide students with hands-on experience.

Optional IT Training

This 1-day course is a comprehensive introduction to the management of the EtaPRO System from an IT perspective.

Course MATERIALS

Each participant will receive electronic copies of the EtaPRO Administrator Training Workbook with classroom exercises and relevant IT documentation.

Who Should Attend?

The Administrator course is intended for individuals who are responsible for administration, and day-to-day use of the EtaPRO System, as well as those who desire a broad understanding of the system architecture and components.

The IT course is intended for individuals who are responsible for maintaining communication between EtaPRO, the historian, and the data source, as well as, installing and upgrading the software.



EtaPRO APR Training Course



May 13–14
July 15–16
September 16–17

📍 **Course Location:**
Buffalo/Niagara Falls, NY

EtaPRO APR software continuously monitors real-time data using advanced pattern recognition algorithms to detect plant and equipment anomalies. EtaPRO applies “management-by-exception” methods to focus plant staff’s attention on changing issues before they become critical and noticeable prior to a distributed control system announcing an alarm or a trip.

The objective of this course is to provide an overview of the EtaPRO APR software. Students will learn how to manage and maintain existing installations, and develop new models using EtaPRO APR’s model builder application.

Course Topics Include:

Introduction to Pattern Recognition

- Pattern recognition overview
- Historical data
- Data flow
- EtaPRO APR calculation and results

Concerns Viewer Orientation

- User interface navigation
- Alarm management
- Monitoring strategy
- Issue Tracking System
- Enterprise Concerns Viewer

Model Building

- Point properties
- Data analysis
- Data repair tool
- Offline analysis
- Fault detection

VirtualPlant Training Course



May 14–15
July 16 –17
September 17 –18

📍 **Course Location:**
Buffalo/Niagara Falls, NY

EtaPRO VirtualPlant software provides actual and expected real-time and aggregate key performance indicators, such as efficiencies and capacities, for plants and equipment overall. VirtualPlant simulates an entire power generation cycle. The objective of the course is to familiarize students with VirtualPlant and to help develop and tune VirtualPlant models.

Course Topics Include:

Introduction of VirtualPlant Components

- Boiler/HRSG
- Steam turbine, shaft packing, steam seal regulator
- Gas turbine
- Feedwater heaters, pipes
- Condensers
- Pumps

Building Simple Turbine Cycle Models

- Rankine cycle
- Combined cycle

Parametric Studies

- Output and heat rate sensitivity to circulating water temperature or ambient conditions
- Developing heat rate and output correction curves

VirtualPlant Model Tuning

- Adjusting model inputs to match plant operating data
- Verifying feedwater flow
- Troubleshooting VirtualPlant Model
 - Non-convergence
 - Typical trouble spots


Working with Real VirtualPlant Models


- Connecting to EtaPro
- What-if studies




ETAPRO® ADMINISTRATOR and/or IT TRAINING ADVANCED ETAPRO APR and VIRTUALPLANT WORKSHOP

3 EASY WAYS to REGISTER

 **Phone** +1.716.799.1080
800.803.6737

 **Fax** 716.799.1081

 **Mail** GP Strategies
25 Northpointe Parkway
Suite 100
Amherst, NY 14228

Travel & Lodging

Participants are responsible for making their own travel and hotel arrangements. Buffalo Niagara International Airport is located just 15 minutes from GP Strategies®.

A listing of local area hotels, including those offering discounted rates to GP Strategies, will be included with your course registration confirmation.

Registration & Fee

3½-Day EtaPRO Administrator Training	\$1,850
1 Day EtaPRO IT Training	\$500
4½-Day EtaPRO IT & Administrator Training	\$2,250
1½ -Day EtaPRO APR Workshop	\$1,150
1½-Day EtaPRO VirtualPlant Workshop	\$1,150
3-Day EtaPRO APR & VirtualPlant Workshop	\$1,850

All of our courses offer a 10% multi-registrant discount to organizations registering three or more persons for the same class at the same time. Fee includes software guides, other course materials, continental breakfast, lunch and daily beverage breaks.

Note: Occasionally, a particular course will not meet the minimum registration requirement. GP Strategies reserves the right to cancel such a session at least 10 working days prior to the scheduled start. Participants will be promptly notified. We cannot, however, be responsible for travel-related expenses or reservation penalties.

Please photocopy this form for additional registrants.

Applicants may cancel up to 10 working days before the course for a full refund. Cancellations received later than 10 working days prior to course are subject to a 20% service charge. Those who have not canceled reservations two working days prior to the course and “no shows” are subject to the full course fee. Substitutions may be made at any time.



 **Course Location:**
Buffalo/Niagara Falls, N

Administrator Training

- March 12 –15
- *May 7 –10
- *July 9 –12
- *September 10 –13
- November 12 –15

Optional IT Training

- May 6
- July 8
- September 9


EtaPRO APR Workshop

- May 13 –14
- July 15 –16
- September 16 –17

EtaPRO VirtualPlant Workshop

- May 14 –15
- July 16 –17
- September 17 –18

* 1-1/2 days each of EtaPRO APR & VirtualPlant Training will be offered the following week. For information on our EtaPRO APR and VirtualPlant Training, visit www.gpstrategies.com/power-plant-courses

 Mail or fax this application with your payment information to reserve your seat in the selected session.

Method of Payment:

Charge my: Mastercard VISA AMEX

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