**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 ½-day course is a comprehensive introduction to the management of the EtaPRO System from an IT perspective.

**Course MATERIALS**
Each participant will receive copies of the EtaPRO Administrator Training Workbook with classroom exercises and relevant IT documentation, along with a thumb drive containing the EtaPRO Graphics Library and Calculation Templates.

**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 and setting up security for the EtaPRO applications.

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**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 a 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.
- To set up additional data acquisition sources.
- Routine system back-ups of the databases are performed and what information is stored in those databases.
- Security is configured for EtaPRO applications (SQL and EtaPRO including use of AD groups).
- EtaPRO Server and Client applications are installed and upgraded.
- EtaPRO Server, Web Client, and EPREporter are configured.
- To troubleshoot causes of EtaPRO quality alarms.
- To troubleshoot EPREporter problems.
- To examine EtaPRO database and text logs for troubleshooting.
EtaPRO APR Training Course

May 11–12
July 20–21
September 21–22

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 12–13
July 21–22
September 22–23

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 VirtualPlant models using design data while applying engineering principles.

Course Topics Include:

Introduction of VirtualPlant Components
- Boiler/HRSG
- Steam Turbines
- Gas Turbines
- Feedwater Heaters
- Condensers
- Pumps
- Mixers/Splitters

Building Simple Turbine Cycle Models
- Simple Rankine Cycle
- Simple Combined Cycle
- Rankine Cycle (based on vendor heat balance)

Parametric Studies
- Output and Heat Rate Sensitivity
- Developing Heat Rate and Output Correction Curves

Working with Real VirtualPlant Models
- Troubleshooting
  - Non-convergence
  - Typical Trouble Spots
- Connecting to EtaPRO
- Understanding Real-time Model Cases
- What-if studies
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
1½-Day EtaPRO IT Training $1,150
5-Day EtaPRO IT & Administrator Training $2,400
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.

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* 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.
Focus: Full-service, global performance improvement solutions from learning development to sales enablement and leadership programs tailored to both individual and enterprise-wide goals.

Founded: 1966

Headquarters: Columbia, Maryland, USA

Global Locations: Offices throughout the Americas, EMEA and APAC

NYSE: GPX

Vision and Mission: Our vision is a world where business excellence makes possibilities achievable. Our mission is to enable people and businesses to perform at their highest potential.