

## Proficy Plant Applications Quality

### Course Description

**Proficy Plant Applications Quality** explains how to configure Plant Applications to capture the precise specifications of a product run and manage the quality of all raw materials, in-process products and finished goods. Discussion includes the concepts of Specification Management and how the relationship of products with specifications can streamline the process of maintaining product information. Configuration is shown for site-specific and equipment-specific product specifications, Alarm conditions, and Statistical Process Control (SPC) analysis tools. Web-enabled analytical tools are used to expose product relationships for analysis and troubleshooting, and to measure variation in the plant manufacturing process. Valuable hands-on lab exercises are provided to provide tangible configuration skills.



### Who Should Attend?

Administrators of Proficy Plant Applications who want to configure the Plant Applications Quality module.

### Are There Any Prerequisites?

Participants should have successfully completed the Proficy Plant Applications Fundamentals classroom training or have equivalent experience.

### What Tasks Will Be Taught in This Class?

Upon completion of this Course, the student will be able to:

- Briefly describe the overall capabilities of the Plant Applications Quality Module.
- Describe the concept of Specification Management.
- Create and manage Unit and Central Specifications.
- Configure standard and SPC alarming to capture reasons for out-of-spec conditions.
- Build a conformance model to perform event and variable conformance analysis.
- Use the available quality related reports in Plant Applications and explain the function of each

### Course Length

2 days

### Suggested Class Size

8 students

### Class Hours

8:00 am - 5:00 pm, daily



## Course Agenda

*(Schedule and content may vary)*

### Day 1

#### Morning

##### **Introduction to the Quality Module**

Introduce the features of the Plant Applications Quality Module. Describe the relationship of product information with specifications.

##### **Specification Management – Unit Level Specifications**

Configure Products and define Quality and Process Specifications at the Unit (Machine) Level. Configure an Autolog Display to view quality information.

#### Afternoon

##### **Specification Management – Central Level Specifications Part 1**

Configure Specifications at a Central (Plant wide) level across multiple units using the Single and Multiple property approaches. Build a Relative View Display. Run and view Variable Specification related Reports and Web Parts.

##### **Specification Management – Central Level Specifications Part 2**

Configure Specifications at a Central (Plant wide) level across multiple units using the Hierarchical property approach. Configure Multi-Element Specifications for download to a SCADA system or PLC.

### Day 2

#### Morning

##### **Plant Applications Alarms**

Define alarming conditions based on data points outside of their Specification Limits. Build a Alarm View Display to alert on process variations. Run and view Alarm related Reports and Web Parts.

##### **Statistical Process Control (SPC)**

Configure SPC Variables and Groups, define SPC Rule Alarming and trigger SPC Alarms. Create SPC calculations using the out-of-the-box pre-configured calculations. Run and view SPC related analysis Reports and Web Parts.

#### Afternoon

##### **Event Conformance**

Configure a Conformance model to automatically set disposition based on quality. Run and view Variable and Event Conformance related Reports and Web Parts.

##### **Production Run Analyst Application**

Learn how this "real-time" application is utilized to review-to-review current process and quality conditions versus standard (recipe) conditions and historical conditions.

