



# QI™ Analyst Training

## Workshop for New Users

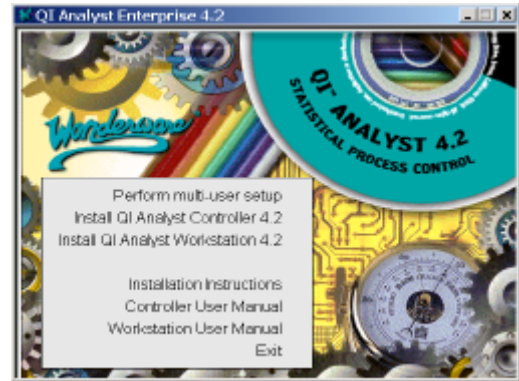
### CERTIFIED QI™ Analyst Training

#### Workshop Description

This one day interactive, "hands-on" workshop leads new users through QI™ Analyst's basic and intermediate features. It includes *lab modules* to give participants the opportunity to reinforce their QI™ Analyst skills by *creating a complete project* from setup to data collection and charting

#### Workshop Purpose

Helping participants become fluent in basic and intermediate QI™ Analyst functions is the goal of this workshop. In particular, participants will learn how to create user interfaces necessary to produce on-line statistical process control (SPC) charting. Participants will be introduced to the components of QI™ Analyst (Controller and Workstation) and learn how to connect QI™ Analyst to external databases, InTouch tags, and measurement devices.

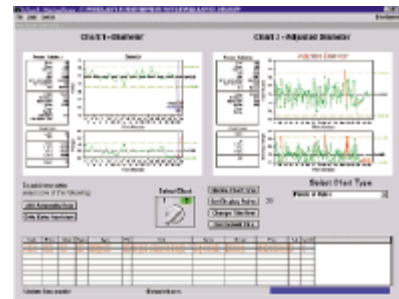


#### Workshop Prerequisites

Introductory statistical process control and intermediate computer skills are prerequisites for this workshop. Each participant will need access to a computer with QI™ Analyst 4.2 Controller, InTouch™ 8.0, IndustrialSQL™ 8.0, and Microsoft® Access™.

#### Workshop Objectives

- Introduce QI™ Analyst and its role in the Wonderware FactorySuite™.
- Using QI™ Analyst Controller, introduce:
  - Gathering data from InTouch tags
  - Gathering data from a device (caliper)
  - Display fields involving calculations
  - Alarming: visual and audible
  - Drop-down menus and Help files
  - Charts (e.g., histogram, X-bar, range, individual)
- Learn how to enter data and display charts through QI™ Analyst Workstation
- Use QI™ Analyst to connect to an ODBC complaint database and archive data to InSQL and MS Access.
- Learn how to create and use a device file to capture data from an external measurement device (caliper)



This workshop is led by MAP Quality Engineering and is provided to you in conjunction with Wonderware.



### Workshop Agenda

#### Introduction

Introduce workshop agenda, goals, and objectives. Discuss on-line and off-line uses for SPC/SQC.

#### Overview

Review the key components of QI™ Analyst: Controller, Workstation, and Gage Setup. Introduce file types, file structure, and database connectivity.

#### Introduce Controller Module Project

Review file-structure and file-types in preparation for the design module project. Review project requirements: screen layout, data collection variables, menu bars and help files.

#### Admin Controller

Use QI™ Analyst Controller to create the project application.

Define user IDs, groups, workspaces, data acquisition map settings, system defaults, and other administrative data that is stored in the QI Analyst admin database.

#### Controller Process Data

Use QI™ Analyst Controller to create data tables, setup characteristics, define causes, actions, rules, and alarms, and set system defaults for data entry in the process database.

#### External Configuration (Tags, Devices/Databases)

Use the files provided on the workshop CD to configure QI™ Analyst to use gages, tags, and databases.

#### Workstation

Use the workstation UI to input data, to view SPC charts and alarms, and to record process adjustments.