



Manufacturing Industry Virtual Seminars

**Learn How to Increase Throughput,
Improve Quality, and Maximize Profits**

(865) 927-0491 • www.qualproinc.com •

Essential Statistical Quality Improvement Techniques for the Manufacturing Industry

This four-day seminar teaches the basic techniques of statistical quality control and provides training in QualPro's continuous improvement philosophy. Our seminar content is presented in a simple, step-by-step approach with minimal technical detail and emphasizes the use of basic statistical techniques to uncover opportunities for breakthrough improvement. The course includes applications specific to the manufacturing industry, and examples are derived from real-world process improvement projects. This seminar will be beneficial to employees from all levels of your organization.

In This Seminar, Participants Learn:

- Status of quality improvement practices
- How to monitor and control key product characteristics
- How to identify major causes of defects
- How to sample multi-position processes
- Special techniques for monitoring and controlling batch processes
- Measurement assessment for destructive tests and visual tests
- Charting aesthetic and subjective measurements

Course Outline

Introduction

Targeting Business Results

- QualPro's Four Cornerstones
- Getting Started

Measuring and Assessing Performance

- Measures of Success
- Operational Definitions
- Basic Tools
- Capability Analysis

Validating Measurement Systems

- Measurement as a Process
- Measurement Capability Study
- Measurement Indices
- Measurement Study Tips

Monitoring and Controlling Processes

- Control Chart Theory
- Nonrandomness Tests
- Rational Subgrouping
- Variables Control Charts
- Attribute Control Charts
- Using the Control Chart for Process Improvement

Seeking Continuous Improvement of Results

- Special Cause Analysis
- Gimmes

Achieving Breakthrough Improvement

- Introduction to MVT Methodology
- QualPro's 12-Step MVT® Process

Summarizing Basic Concepts

- Case Study
- Finalizing the Initial Action Plan
- The Process Improvement Tracking Matrix®

"QualPro's application of statistics is not an academic and arcane science. It is practical. It is pragmatic. It is useful, and it's useful because it's simple. It's direct, and it's used in an appropriate way to drive truth into data."

Sauder Woodworking, Chuck Lawrence, Vice President, Purchasing and Information Services



QualPro's Expertise

With decades of industry experience, QualPro is uniquely qualified to help you dramatically improve your manufacturing processes through the power of experimental design. Our 12-Step MVT® Process has been proven effective time and again in industries as diverse as healthcare, chemical processing, and retail sales. We have worked with more than a thousand clients over the years, and together they have saved billions.

Still not convinced? Hear from just a few of our manufacturing clients about the positive impact of QualPro's MVT Process in their respective operations.

Client Testimonials



"You're going to improve the process—you're going to make it better; you're going to move it faster; you're going to make it cheaper; you're going to solve quality problems, improve products, whatever it is—but you're not going to spend any capital . . . You're not going to increase the running costs. That's a pretty good deal . . . QualPro. MVT. It works everywhere. It works on everything. Everybody loves it. It produces results."

-Bill McBee, President

"We did all of this in less than six months . . . Average changeover time was reduced 44%. [We had] savings up to \$15 million in downtime . . . We freed up 33,000 line hours of production time across three plants. We didn't have to make \$2 million in capital investment."

-Adam Johnstone, Plant Engineer



"I would describe QualPro and the MVT Process as being state of the art . . . Since we've become more proficient at using the process, the results have spoken for themselves . . . We have conducted dozens of MVT experiments, and what's surprising is that in most of the cases, the main effect or answer is not what the experts say."

-Joey Ferraro, Senior Manager, Quality Services

"(We had) a complex problem and a large mining operation. [MVT] allowed us to break it down into something that was practical [and] definitely cost-effective, test a lot of solutions at one time, get some quick results, and then we had a path forward for how we wanted to run the operation . . . It was interesting and rewarding, and, literally, in a matter of a couple months, it changed the employees' outlook on the operation."

-Brian Wright, Mine Operations Team Leader



Contact

To learn more about QualPro and our seminar offerings, please visit us online or call us at the number below.

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QUALPRO®

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