



Manufacturing Industry Virtual Seminars

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

(865) 927-0491 • www.qualproinc.com •



The QualPro MVT® Process for Improving Performance and Profit Margins in the Manufacturing Industry

This advanced experimental design seminar is presented as a simple, step-by-step approach to design of experiments (DOE) with minimal technical detail. The seminar emphasizes the use of statistical techniques—and statistical software—to uncover opportunities for breakthrough improvement. The exercises included in the seminar have been collected from years of successful application in the manufacturing industry. During the seminar, participants will learn how to utilize DOE to solve real-world manufacturing industry problems.

Participants leave this seminar with an experiment designed to improve a specific process or problem in their organization. Participants identify the problem or the key performance indicator they wish to improve. We help them design the experiment, and they return to work ready to execute it.

Day 1

- Introduction to QualPro's DOE Approach: The 12-Step MVT® Process
- Review of Basic Statistical Techniques
- Validating Measurement Systems
- Using Statistical Tools to Prepare for Experimentation

Day 2

- Identifying Factors (Ideas Included in an Experiment) and Levels (Factor Settings) to Test
- Experimental Strategy and Design
- Introduction to QualPro's Custom Screening Designs
- Fundamentals for Designing and Executing Experiments

Day 3

- Introduction to Factorial Designs
- Fundamentals of Analyzing Experiments
- Analyzing Experiments Using Software

Day 4

- Deploying and Analyzing Screening Experiments
- The Role and Execution of Refining Experiments
- Workshops to Evaluate, Critique, and Approve the Designs of Individual Experiments
- Practical Advice for Using DOE and QualPro's DOE Software Within Your Business

In This Seminar, Participants Learn:

- How to View Production and Operations as a System
- How to Use Statistical Tools to Monitor Key Success Measures and Process Characteristics
- How to Assess Measurement Systems, Process Stability, and Process Capability
- How to Identify Ideas to Test
- How to Apply DOE to Their Most Vital Processes
- How to Plan and Successfully Deploy Screening and Refining Experiments in Order To:
 - ▶ Identify the Ideas That Will Improve Performance
 - ▶ Avoid the Ideas That Will Hurt Performance
 - ▶ Optimally Manage the Ideas That Have No Effect on Performance

Benefits of the 12-Step MVT Process

- Provides a Logical, Step-By-Step Methodology for Utilizing DOE in Your Business
- Uses Creative Input from Individuals Throughout Your Business to Generate Ideas for Testing
- Provides a Methodology That Enables Substantial Improvement Without Increased Capital Expenditure
- Enables DOE to Be Used as a Continuous Improvement Tool
- Streamlines the Execution of Experiments to Enable Significant Performance Improvement in a Short Time Period

"The final results of our screening MVT showed a potential for [a] 5% increase in production rate... that would be worth \$11 million a year."

Tronox, Jennifer Cummings, Vice President, Senior Process Engineer

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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