



# Chemical Industry Virtual Seminars

**Statistical Process Improvement  
Techniques to Improve Key Performance  
Indicators and Increase Profitability**

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## The QualPro MVT® Process for Improving Performance and Profit Margins in the Chemical 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 of DOE to actual chemical processes. During the seminar, participants learn how to utilize DOE to overcome challenges commonly faced in the chemical industry.

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



# QualPro's Expertise

With decades of industry experience, QualPro is uniquely qualified to help you dramatically improve your chemical 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, manufacturing, 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 chemical industry clients on the positive impact of QualPro's MVT Process in their respective operations.

## Client Testimonials



*"We were able to decrease our heavies recycle to the plant by 75% . . . We have increased our production by about 10% in the past year, and we did this without any capital investment."*

-Greg Brooks, Production Engineer

*"Because the [MVT] Process is extremely versatile, it works equally well on batch or continuous processes. Its use can range from a single operator or laboratory technician doing a small MVT, to an MVT that involves several different plants . . . The technique scales beautifully."*

-Dave Pruett, Vice President



*"QualPro worked with us to identify and structure the opportunities and show us how they would work."*

-Andy Viens, President of Global Marketing

*"Companies that have started MVT, several years down the road, they'll still be conducting MVTs. They're still using MVT tools, and it's making big bucks . . . When you look in hindsight, the cost is minuscule compared to the savings. [It is so] minuscule [that it represents] one-tenth to one percent of the savings that you incur."*

-John Harrelson, Polyethylene Technology Manager



*"We've set our vision as being the low-cost player . . . and we collectively all believe that MVT is the right way to go to help us get to our vision."*

-Dan Jaffee, CEO

# 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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