

A woman wearing a red hard hat and a grey herringbone coat is standing in a chemical plant, looking down at a set of blueprints she is holding. The background shows industrial machinery, pipes, and other workers in the distance.

**The QualPro MVT<sup>®</sup>  
Process for Improving  
Performance and Profit  
Margins in the  
Chemical Industry**

**Upcoming Seminar Date  
October 23-26, 2018  
Knoxville Tennessee**

**REGISTER NOW**

**(865) 927-0491, Ext. 307 • [www.qualproinc.com](http://www.qualproinc.com)**

# About Us

Faced with tougher competition and a more demanding customer, businesses recognize the need for process improvement. Many of the methods that can improve processes, however, are overlooked or misunderstood. Perhaps the least understood of these methods is design of experiments (DOE). QualPro's 12-Step MVT® Process is a logical, easy-to-follow improvement methodology that utilizes DOE to identify the specific changes in a process that enable breakthrough performance improvement.

QualPro consultants teach attendees how to test numerous improvement ideas—more than a dozen in some instances—simultaneously without disrupting operations or increasing capital expenditure.

QualPro's approach to DOE has generated improvements in chemical companies in many ways, such as the following:

- Optimizing throughput.
- Improving production efficiency.
- Reducing variation.
- Improving plant maintenance and reliability.

	A/B Testing	Typical Factorial DOE	Typical Fractional Factorial DOE	QualPro's DOE
Cost	Low	Relatively Low	High	Low
Speed of Testing	Slowest	Slow	Rapid	Rapid
Likelihood of Significant, Measurable Improvement	Extremely Low	Low	Relatively Low	Certain
Likelihood of Breakthrough Improvement	Almost Impossible	Extremely Low	Low	High
Applicable across Numerous Industries	Yes	No	No	Yes
Ability to Estimate All Two-Factor Interactions	No	Yes	No	Yes
Ease of Execution and Analysis	Easy	Relatively Easy	Difficult	Easy
Designed to Foster Teamwork and Encourage Creativity	No	No	No	Yes
Designed for Continuous Improvement	No	No	No	Yes

*"It's amazing when you sit down and you think about the power of MVT and what it can really do for you. We're spending money on the good things. We're not spending it on the bad things."*

**Phillips 66**, Andy Viens, President, Global Marketing

*"Hands down the best Six Sigma training I have attended. DOE was the primary focus of the class; however, the examples and concepts discussed during the training took my basic understanding of statistical tools and language to a different level that can now be applied across multiple conditions at our site."*

**BASF Corporation**, Carly Lousteau, Continuous Improvement Specialist

*"QualPro's MVT approach quickly brought together cross-functional team members, and it worked seamlessly. . . I would recommend their process for cross-functional teams in any organizational structure."*

**DuPont**, Jerry Russell, Six Sigma Champion and Lean Master Black Belt

This seminar will take place on October 23-26, 2018

Knoxville, Tennessee

To request more information about this seminar, please contact QualPro by phone at (865) 927-0491, Ext. 307 or by email at [seminars@qualproinc.com](mailto:seminars@qualproinc.com).

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NOW**



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

Our seminar content is presented as a simple, step-by-step approach to 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 numerous industries. Through this seminar, you will learn how to utilize DOE to solve real-world business problems.

Upon successful completion of this seminar, you will receive QualPro DOE Specialist certification and continuing education units (CEUs). This seminar is part of our DOE Master Certification Program. For more information on this program, please email [seminars@qualproinc.com](mailto:seminars@qualproinc.com) or visit [www.qualproinc.com/seminars](http://www.qualproinc.com/seminars).

You will leave this seminar with an experiment designed to improve a specific process or problem in your organization. You will identify the problem or the key performance indicator (KPI) you wish to improve. We will help you design the experiment, and you will 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 You Will 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 your 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

*"I have been through Six Sigma Green Belt and Black Belt training. The QualPro course was a great addition to my previous training."*

GAF, Beth Miller, Quality Manager



## Contact

For more information on the seminar or QualPro, please visit our website, email us, or call the number below.

(865) 927-0491, Ext. 307

[seminars@qualproinc.com](mailto:seminars@qualproinc.com)

[www.qualproinc.com](http://www.qualproinc.com)

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*“The QualPro consultants have an innate ability to communicate, teach, and instruct advanced concepts. The seminar is led in such a way that practical applications can easily and readily be understood. The statistical models, training materials, and their genuine passion for the subject matter combined with personable and direct instructive techniques left me pleasantly surprised given the subject matter. I recall returning to work with a plethora of ideas that resulted in the application of tangible process improvements.”*

– Seminar Participant, Quality Engineer



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