



DOE Master Certification Program

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OUR CERTIFICATION PROGRAM

QualPro is pleased to offer our new Design of Experiments (DOE) Master Certification program. To receive DOE Master Certification, candidates must accomplish the following criteria:

1. Enroll in QualPro's DOE Master certification program
2. Complete the required QualPro seminars, which include:
 - Advanced DOE for Lean Six Sigma Professionals
 - Expert-Level DOE Techniques: Special Topics
 - Regression for Process Improvement
3. Pass a written exam following the completion of each seminar
4. Successfully execute a designed experiment at their business

For those seeking DOE Master Certification, QualPro will provide continued guidance and technical advice to assist candidates in executing one or more designed experiments within their business. To receive DOE Master Certification, applicants must design and execute experiments that substantially improve one or more key performance indicators (KPI) within their business.

ADVANCED DOE FOR LSS PROFESSIONALS

Attendees receive “DOE Specialist” certification

Developed specifically for those with previous LSS education, this four day seminar provides attendees with a review of statistical process control (SPC) techniques and an introduction to QualPro’s approach to experimental design – the 12-Step MVT® Process.

Our seminar content is presented as a simple, step-by-step approach to DOE with minimal technical detail and 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, you will receive DOE specialist certification and continuing education units (CEUs).

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 KPI you wish to improve, we will help you design the experiment, and you will return to work ready to execute it.

EXPERT-LEVEL DOE TECHNIQUES: SPECIAL TOPICS

Attendees receive “DOE Expert” certification

This seminar is available to participants who have previously taken a QualPro MVT® seminar or a QualPro Advanced DOE seminar and provides attendees with a concise review of basic and advanced experimental design topics before shifting toward more complex DOE concepts.

In this seminar, attendees will learn how to:

- Include factors with more than two or more levels in a two-level design.
- Maximize the efficiency of confounding patterns in screening designs.
- Test for the presence of special causes.
- Successfully analyze the results of an experiment that only has partial replication.
- Appropriately utilize definitive screening designs.

This seminar will also cover nuisance factors and mixture designs. With our guidance, participants will also learn how to use simultaneous designs, which can provide a higher level of statistical validity without increasing the time required to execute the experiment. Additionally, participants will learn how to analyze the results of incomplete screening designs.

Attendees will leave this seminar with the tools necessary to manage even the most complex experimental design issues. Upon completing this seminar, attendees will receive QualPro’s DOE Expert certification.

REGRESSION FOR PROCESS IMPROVEMENT

Attendees receive “Regression Specialist” certification

This seminar is intended for participants who have previously attended a QualPro MVT® seminar or a QualPro Advanced DOE seminar and provides attendees with a solid foundation in regression analysis. Additionally, this seminar teaches attendees how to use regression analysis to maximize the improvement potential of designed experiments.

The seminar includes an overview of both simple linear and multiple linear regression techniques. Among other topics, this seminar will teach participants how to use regression analysis to:

- Surface potential ideas for testing.
- Identify the test ideas that are most likely to deliver break through improvement.
- Uncover helpful actions that can be implemented immediately—without experimentation—to improve performance.
- Estimate the effects of any covariates that may have altered or biased the results of an experiment.

The workshops included in this seminar feature industry-specific examples created from real-world business data.

Participants will leave this seminar with an understanding of how to use different statistical software packages to execute a regression analysis. Participants will also have the opportunity to bring in their own company data, and we will help each attendee identify potentially helpful factors in their data. Attendees will receive a QualPro Regression Specialist certification after successfully completing this seminar.