



COURSE NUMBER

FHWA-NHI-134070

COURSE TITLE

SpecRisk Quality Assurance Specification Development and Validation Course

This course will provide an introduction to statistical analysis and the development of statistically valid quality assurance specifications, introducing general guidelines established and put forth by the Federal Government and FHWA policy. The course also provides participants with an introduction to SpecRisk, the resource that is necessary to successfully develop statistically valid specifications. The course is designed and delivered to motivate members of the target audience to use SpecRisk software to develop their specifications. Although the course demonstrates basic functions of the software, it is not intended to be an in-depth training on how to use SpecRisk.

This course requires a solid foundation in basic statistics. Completion of FHWA-NHI 134042, or equivalent training, is also recommended. NHI 134042 trains participants to identify the importance of organizing data and how to plot frequency histograms. It explains how a sample relates to the population, the relationship between single and multiple samples, and the use of random stratified sampling tables. This knowledge provides an excellent foundation for this course.

OUTCOMES

Upon completion of the course, participants will be able to:

- Recognize key concepts to develop an effective, statistically valid Quality Assurance (QA) specification.
- Make an informed selection among available options when developing an acceptance plan.
- Develop QA specifications in alignment with best practices, Federal regulations, and FHWA policy.
- Apply SpecRisk software to understand risks and develop statistically valid specifications.

TARGET AUDIENCE

Personnel involved in specification development: Federal, State, and local highway agency engineers and technicians in materials, construction, and research. The training is also appropriate for industry personnel that are involved in reviewing and providing input to the specification development process.

TRAINING LEVEL: Basic

FEE: 2017: \$50 Per Person; 2018: N/A

LENGTH: 8 HOURS (CEU: 0 UNITS)

CLASS SIZE: MINIMUM: 1; MAXIMUM: 1

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