



Meetings

ASTM Committee E11 meets twice a year, in the spring and the fall, over two days of technical meetings.

Membership

ASTM International welcomes all technical experts with a desire to work toward further development of standards for quality and statistics. Membership in Committee E11 provide the opportunity to:

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- Have direct input into the development of new and revised standards;
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Committee E11 Quality and Statistics

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250+

Technical Experts

ASTM Committee E11 on Quality and Statistics develops standards to promote the appropriate use of the principles and methods of statistics and quality control in the development, application and improvement of standards. Formed in 1946, the committee has a membership of more than 250 technical experts from more than 25 countries who represent government, industry, research and academia and oversee 32 international standards.

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Published Standards

E11 Subcommittees and Standards

There are five subcommittees within Committee E11 that develop and oversee 32 standards published in Volume 14.02 of the *Annual Book of ASTM Standards*. All standards are reviewed every five years, but can be considered sooner if needed.

Subcommittee E11.10, Sampling/Statistics

- **ASTM E105**, Practice for Probability Sampling Of Materials
- **ASTM E122**, Practice for Calculating Sample Size to Estimate, With Specified Precision, the Average for a Characteristic of a Lot or Process
- **ASTM E141**, Practice for Acceptance of Evidence Based on the Results of Probability Sampling
- **ASTM E178**, Practice for Dealing With Outlying Observations
- **ASTM E1325**, Terminology Relating to Design of Experiments
- **ASTM E1402**, Guide for Sampling Design
- **ASTM E2586**, Practice for Calculating and Using Basic Statistics
- **ASTM E3080**, Practice for Regression Analysis

Subcommittee E11.20, Test Method Evaluation and Quality Control

- **ASTM E177**, Practice for Use of the Terms Precision and Bias in ASTM Test Methods
- **ASTM E691**, Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method
- **ASTM E1169**, Practice for Conducting Ruggedness Tests
- **ASTM E1323**, Guide for Evaluating Laboratory Measurement Practices and the Statistical Analysis of the Resulting Data
- **ASTM E1488**, Guide for Statistical Procedures to Use in Developing and Applying Test Methods
- **ASTM E2282**, Guide for Defining the Test Result of a Test Method
- **ASTM E2489**, Practice for Statistical Analysis of One-Sample and Two-Sample Interlaboratory Proficiency Testing Programs
- **ASTM E2554**, Practice for Estimating and Monitoring the Uncertainty of Test Results of a Test Method Using Control Chart Techniques
- **ASTM E2655**, Guide for Reporting Uncertainty of Test Results and Use of the Term Measurement Uncertainty in ASTM Test Methods
- **ASTM E2709**, Practice for Demonstrating Capability to Comply with an Acceptance Procedure

- **ASTM E2782**, Guide for Measurement Systems Analysis (MSA)
- **ASTM E2935**, Practice for Conducting Equivalence Testing in Laboratory Applications

Subcommittee E11.30, Statistical Quality Control

- **ASTM E29**, Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications
- **ASTM E1994**, Practice for Use of Process Oriented AOQL and LTPD Sampling Plans
- **ASTM E2234**, Practice for Sampling a Stream of Product by Attributes Indexed by AQL
- **ASTM E2281**, Practice for Process and Measurement Capability Indices
- **ASTM E2334**, Practice for Setting an Upper Confidence Bound For a Fraction or Number of Non-Conforming items, or a Rate of Occurrence for Non-conformities, Using Attribute Data, When There is a Zero Response in the Sample
- **ASTM E2555**, Practice for Factors and Procedures for Applying the MIL-STD-105 Plans in Life and Reliability Inspection
- **ASTM E2587**, Practice for Use of Control Charts in Statistical Process Control
- **ASTM E2696**, Practice for Life and Reliability Testing Based on the Exponential Distribution
- **ASTM E2762**, Practice for Sampling a Stream of Product by Variables Indexed by AQL
- **ASTM E2819**, Standard Practice for Single- and Multi-Level Continuous Sampling of a Stream of Product by Attributes Indexed by AQL
- **ASTM E2910**, Standard Guide for Preferred Methods for Acceptance of Product

Subcommittee E11.40, Reliability

Subcommittee E11.70, Editorial/Terminology

- **ASTM E456**, Standard Terminology Relating to Quality and Statistics

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