



Standard Guide for System-Based, Customer-Centered Quality Plan for Manufacturers¹

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^{ε1} NOTE—10.16 was editorially corrected in May 2016.

1. Scope

1.1 This guide establishes recommended system-based procedures to assist fastener manufacturers and alteration distributors in the development of process controls which are intended to produce quality products in a cost effective manner. These recommended system-based procedures allow an organization to continually improve operational effectiveness.

2. Referenced Documents

2.1 ASTM Standards:²

F1469 Guide for Conducting a Repeatability and Reproducibility Study on Test Equipment for Nondestructive Testing

F1470 Practice for Fastener Sampling for Specified Mechanical Properties and Performance Inspection

F1503 Practice for Machine/Process Capability Study Procedure

F1789 Terminology for F16 Mechanical Fasteners

F2282 Specification for Quality Assurance Requirements for Carbon and Alloy Steel Wire, Rods, and Bars for Mechanical Fasteners

2.2 ASTM Manual:

Manual 22 Total Quality Management-Guiding Principles for Application²

2.3 IFI Standard:

IFI-139 Quality Assurance Requirements for Fastener Testing Laboratories

2.4 ASME Standards:

B18.18.1 Inspection and Quality Assurance for General Purpose Fasteners³

B18.18.2 Inspection and Quality Assurance for High-Volume Machine Assembly Fasteners³

2.5 NIST Program:

Malcolm Baldrige Criteria for Excellence (www.nist.gov)

2.6 ISO Standard:

ISO 16426 Fasteners—Quality Assurance System⁴

NOTE 1—There is no direct relationship of this standard to an ISO counterpart. However, several elements of this guide may be found in ISO 16426.

3. Terminology

3.1 Terms shall be defined in accordance with Terminology F1789.

4. Significance and Use

4.1 A need exists for a Quality Systems Guide that may be deployed by small to larger manufacturers that give direction on development of process-based systems that drive quality and continuous improvement. This guide does not require third party regulation, thus making it attractive to those manufacturers who are not required to have such certification.

5. Management's Role

5.1 Executive management shall be responsible for commitment to a company-wide quality policy. The Quality Policy shall be published, maintained, understood and implemented by all company operation groups.

¹ This guide is under the jurisdiction of ASTM Committee F16 on Fasteners and is the direct responsibility of Subcommittee F16.93 on Quality Assurance Provisions for Fasteners.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5990, <http://www.asme.org>.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.