

SJM Associates – Business/Quality Systems, Core Tools, and Improvement Methodologies

Listed below are the Business Systems, Core Tools, and Improvement Methodologies organizations should undertake based on their needs and the needs of their external Customers. Subjects are listed in their typical order of implementation. ISO 9001:2008 is the recommended first step in the sequence of implementation.

ISO 9001:2008

The Basic, Fundamental, International Quality/Business System for any business supplying products or services.

- Companies can become certified by a 3rd party
- Most customers, including the US government, require compliance and/or certification by a 3rd party

ISO 14001:2004

Contains all the fundamental requirements of ISO 9001 and introduces Environmental Aspects and Requirements.

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Sector Specific Requirements

ISO/TS 16949:2009

Includes all the requirements of ISO 9001:2008 with the addition of **Automotive** Specific Requirements

- Companies can become certified by a 3rd party
- All known automotive OEMs except for Nissan, Honda, and Toyota require certification
- Many Tier One suppliers also require certification of their suppliers

ISO 13485:2003

Includes most of the requirements of ISO 9001:2008 with the addition of **Medical Device** Requirements

- Companies can become certified by a 3rd party
 - Many Tier One suppliers also require certification of their suppliers
- Note: Does not include the requirements for Customer Satisfaction and Continual Improvement

AS 9100:2009

Includes all the requirements of ISO 9001:2008 with the addition of **Aerospace** Specific Requirements

- Companies can become certified by a 3rd party
- All known Aerospace OEMs require compliance and/or certification
- Many Tier One suppliers also require certification of their suppliers

Other Sectors may require use of the Automotive Core Tools

Automotive Core Tools Required for Compliance/Certification

APQP

Advance Product Quality Planning

FMEA

Failure Mode Effects Analysis

SPC

Statistical Process Control

MSA (GR&R)

Measurement Systems Analysis

PPAP

Production Part Approval Process

Improvement Methodologies for all Core Tools and Business Systems

Control Plans

Error Proofing

Corrective Actions (8D)
Problem Solving

Cost of Quality

Five S

Lean Manufacturing

Six Sigma

Geometric Dimensioning and Tolerancing (GDT) & Blue Print Reading

