



## CQE Training & Consultancy Plt (Reg No. : LLP 0003668 LGN)

Registered Office : No. 46, Lorong Bintang, Taman Tasik Permai, 34000 Taiping, Perak. Malaysia.

Operating Office : No. 85A (1<sup>st</sup>. Floor), Jalan Barrack, 34000 Taiping, Perak. Malaysia.

T : +605-805 2722 F : +605-805 2721 M : +6012-505 2720 / +6012-502 2720

E : [cqetraining@gmail.com](mailto:cqetraining@gmail.com) or [kuangkh@cqetraining.com](mailto:kuangkh@cqetraining.com) W : <http://www.cqetraining.com> B : <http://cqeblog.blogspot.com>

# ISO/TS16949:2009 Automotive QMS Introductory & Awareness Training (IN HOUSE/PUBLIC TRAINING PROGRAMME)



SBL  
Scheme

## Introduction

The automotive societies of the USA, UK, Italy, France and Germany have formed a group to develop an international automotive quality systems standard. The group called the International Automotive Task Force (IATF) has been formed of quality management personnel from the vehicle manufacturers including Ford, General Motors, Daimler Chrysler, Peugeot, Fiat, BMW, and others, and trade associations, AIAG, SMMT, VDA, CCFA and FIEV.

The ISO/TS 16949 Standard was an international effort to develop a common Quality Management System for automotive industry. It was initially presented as an alternative to those organizations that were certified to QS9000, VDA 6.1, AVSQ and EAQF. However, with the retirement of QS 9000, AVSQ and EQFQ in recent year, more and more companies have chosen to be certified with ISO/TS 16949.

ISO/TS 16949:2009 was developed by IATF (International Automotive Task Force) members and approved by ISO (International Organization for Standardization) for publication. It is an industry specific Quality Management System (QMS) catering for automotive industries with the following objectives:

- Promote continue improvement
- Emphasis defect prevention, and
- Continual waste and variation reduction.

The automotive industry Quality Management System (QMS) consists of ISO/TS 16949 Standard and the related customer-specific requirements (CSR).

- The 3rd edition is the latest version and it was published on the 15th of June 2009. It has been technically updated to align with ISO 9001:2008 Standard. The previous revision was based on ISO 9001:2000.
- Customer-Specific Requirements (CSR) is the additional requirements imposed by the OEM. These requirements will form part of the audit criteria during the certification & internal audits.



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## Overview

The Standard is based on ISO 9001:2008 standard with additional common automotive industry requirements. The requirements are encompassed in 5 clauses, namely:

1. Quality Management System,
2. Management Responsibility,
3. Resource Management,
4. Product Realization,
5. Measurement, Analysis & Improvement.

**Also available as  
in-house programme.**

Exclusion to the requirements is only limited to the product design & development processes.

Organizations that spearheading for certification must be parts of the automotive supply chain that provides value added activities or services to their customers. The term “automotive” include cars, buses, trucks, motorbikes but exclude special purpose vehicle such as tractors for agricultural purposes. Producers of automotive after-market products or providers of support services such as warehousing, transportation, calibration and others are not eligible for certification. Scope of certification includes site where value added activities are performed as well as remote locations if any where support services are provided.

## Is ISO/TS 16949 relevant to your organization?

It is part of the common procurement requirement among the IATF members that all their suppliers, especially tier-1 suppliers shall be certified to ISO/TS 16949. JAMA strongly encourages their members' suppliers to be certified to the ISO/TS 16949. In recent years, more are more OEMs (besides IATF and JAMA members) are encouraging or has made it part of the procurement requirements that require their suppliers to be 3rd party certified to ISO/TS 16949, one of those examples is Proton in Malaysia.

### Notes:

- **IATF** members include the following vehicle manufacturers: BMW Group, Chrysler Group LLC, Daimler AG, Fiat Group Automobiles, Ford Motor Company, General Motors Corporation (including Opel Vauxhall), PSA Peugeot-Citroen, Renault, Volkswagen AG and the vehicle manufacturers respective trade associations - AIAG (U.S.), ANFIA (Italy), FIEV (France), SMMT (U.K.) and VDA (Germany)
- **JAMA** members include the following vehicle manufacturers: Daihatsu Motor Co., Ltd, Fuji Heavy Industries Ltd., Hino Motors, Ltd., Honda Motor Co., Ltd., Isuzu Motors Ltd., Kawasaki Heavy Industries, Ltd., Mazda Motor Corporation, Mitsubishi Motors Corporation, Mitsubishi Fuso Truck & Bus Corporation, Nissan Motor Co., Ltd., Suzuki Motor Corporation, Toyota Motor Corporation, UD Trucks Corporation, and Yamaha Motor Co., Ltd.



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## Learning Outcomes/Objectives

Upon return to workplace, participants will be able to:-

- + Acquire an in-depth understanding about ISO/TS16949:2009 automotive QMS standard.
- + Know how this new ISO/TS16949 standard work together with current automotive standard such as QS9000, AVSQ, EAQF and VDA 6.1 especially the IATF and JAMA members.
- + Differences between automotive standard ISO/TS 16949:2002 versus ISO/TS16949:2009 edition.
- + The effects of ISO/TS16949:2009 affecting existing systems.
- + The development, Implementation and maintenance of ISO/TS 16949 automotive QMS standard.

## Program Contents

### Day 1

1. Registration
2. Introduction, Ice-breakers (Warm-Up Exercise)
3. Training Schedule Confirmation
4. Introduction and briefing of ISO/TS16949:2009 automotive QMS requirements
  - ISO/TS16949 QMS structure
  - 8 Management Principles
  - Excerpt of ISO/TS16949:2009 Clause 4 to 8
5. An overview of current world automotive standards (QS9000, AVSQ, EAQF and VDA 6.1)
6. International Automotive Task Forces (IATF) requirements
7. Benefits of ISO/TS 16949 Certification
8. Additional requirements in ISO/TS 16949 Standard vs QS9000:1998 and ISO9001:2008 Standards



### Day 2

9. Supplementary Requirements
  - Advance Product Quality Planning (APQP)
  - Production Part Approval Process (PPAP)
  - Measurement System Analysis (MSA)
  - Failure Mode & Effects Analysis (FMEA)
  - Statistical Process Control (SPC)
10. ISO/TS16949:2009 QMS Development, Implementation and Compliance
  - Forming Project Team
  - Gap Analysis
  - Formulate Action Plans, Implementation and Continual Improvement



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### 11. Quality Documentation

- Changes to current documentation
- Quality Manual and Procedures
- Standard Operating Procedures (SOP) and Work Instruction (WI)
- Format requirements and control mechanism (preparation, review, approval, issue, distribution, retrieval and retention)

## Who Should Attend

**F**or Managers, Executives, Engineers, Supervisors and IQA Auditors responsible for ISO/TS16949 automotive QMS implementation and deployment, Research, Design & Development Executives and Engineers in any automotive relevant organization.

## Methodology

- + Course Notes
- + OHP / LCD
- + Case Study / Group Activities
- + Lecturettes

## Duration

2 Days

