The ISO/TS 16949 Standard for Automotive Quality Training Course

Professional Development Training Course Outline

Category	Quality Assurance and ISO standards	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

ISO/TS 16949 Standard for Automotive Quality Training course is designed to provide professionals in the automotive industry with comprehensive knowledge and practical insights into implementing quality management systems based on global best practices. This course emphasizes customer satisfaction, continuous improvement, and defect prevention, ensuring that organizations meet industry standards while enhancing operational performance. By focusing on global automotive supply chain integration, participants will gain valuable expertise in applying ISO/TS 16949 principles in real-world scenarios.

This program highlights trending concepts such as automotive quality compliance, lean manufacturing strategies, and supplier quality assurance. With a focus on zero-defect manufacturing, participants will be empowered to drive organizational transformation while strengthening supplier relationships. The course further explores risk-based thinking, process-oriented approaches, and the critical role of leadership in fostering quality-driven cultures across automotive organizations.

Programme Curriculum

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Course Objectives

1. Understand the principles and requirements of ISO/TS 16949 for automotive quality management systems.
2. Apply risk-based thinking to identify, assess, and control quality risks in automotive production.
3. Enhance supplier quality assurance and ensure compliance across the automotive supply chain.
4. Implement defect prevention strategies to achieve zero-defect manufacturing.
5. Develop process-oriented approaches aligned with global automotive quality standards.
6. Integrate lean manufacturing techniques with ISO/TS 16949 requirements for efficiency.
7. Strengthen customer satisfaction through improved quality and reliability of products.
8. Evaluate organizational compliance using internal auditing and performance measurement tools.
9. Foster leadership commitment and quality culture within automotive organizations.
10. Improve corrective and preventive actions for non-conformance in production.
11. Understand the role of continual improvement in sustainable automotive quality.
12. Align ISO/TS 16949 standards with IATF 16949 updates and future requirements.
13. Prepare organizations for third-party certification and surveillance audits.

Organizational Benefits

1. Improved customer satisfaction and trust.
2. Strengthened supply chain quality and reliability.
3. Enhanced reputation in the global automotive market.
4. Increased operational efficiency through lean integration.
5. Reduction of production errors and defects.
6. Better risk management and preventive actions.
7. Improved employee engagement in quality practices.
8. Enhanced compliance with international quality standards.
9. Streamlined auditing and monitoring processes.
10. Stronger competitive advantage in the automotive industry.

Target Audiences

1. Quality managers and engineers.
2. Automotive manufacturing supervisors.
3. Supply chain and procurement professionals.
4. Production managers and team leaders.
5. Internal auditors and compliance officers.
6. Research and development teams.
7. Continuous improvement specialists.
8. Senior management and decision-makers.

Course Duration: 10 days

Course Modules

Module 1: Introduction to ISO/TS 16949 Standard

- Overview of ISO/TS 16949 history and scope
- Understanding the connection to ISO 9001
- Role of automotive quality standards in industry compliance
- Importance of global supply chain integration
- Key terminology and concepts
- Case study: Evolution of quality standards in automotive industry

Module 2: Core Requirements of ISO/TS 16949

- Interpretation of clauses and requirements
- Documentation and records management
- Quality management system principles
- Key mandatory processes
- Alignment with customer-specific requirements
- Case study: Implementing clause requirements in a supplier firm

Module 3: Risk-Based Thinking in Automotive Quality

- Identifying risks and opportunities
- Application of Failure Mode and Effects Analysis (FMEA)
- Preventive risk control techniques
- Linking risk management with customer satisfaction
- Risk monitoring and review methods
- Case study: Risk-based thinking applied in an OEM environment

Module 4: Process-Oriented Approach

- Defining process mapping in automotive quality
- Measuring process performance
- Applying the Plan-Do-Check-Act cycle
- Linking processes to organizational objectives
- Process optimization for efficiency
- Case study: Successful process approach in tier-one supplier

Module 5: Supplier Quality Management

- Supplier evaluation and monitoring methods
- Building long-term supplier partnerships
- Supplier development and capability improvement
- Managing supplier non-conformance
- Supplier risk and performance reviews
- Case study: Supplier quality management in global automotive firms

Module 6: Defect Prevention Strategies

- Zero-defect mindset in automotive production
- Root cause analysis methods
- Use of quality tools such as 8D, 5 Whys, and Pareto analysis
- Controlling variation in processes
- Customer-focused corrective action methods

- Case study: Reducing defects in engine manufacturing

Module 7: Lean Manufacturing Integration

- Linking lean principles with ISO/TS 16949
- Eliminating waste in production
- Continuous flow and Just-in-Time practices
- Lean tools for quality improvement
- Enhancing productivity with lean integration
- Case study: Lean-ISO integration in assembly lines

Module 8: Leadership and Quality Culture

- Role of leadership in ISO/TS 16949 compliance
- Building a culture of quality and accountability
- Employee engagement strategies
- Communication and change management
- Leading continuous improvement initiatives
- Case study: Leadership-driven quality transformation

Module 9: Internal Auditing Techniques

- Preparing audit plans and schedules
- Conducting effective internal audits
- Reporting audit findings
- Closing non-conformities
- Tools for audit effectiveness
- Case study: Successful audit practices in automotive firms

Module 10: Continual Improvement Practices

- Understanding Kaizen principles
- Tracking key performance indicators (KPIs)
- Continuous improvement cycles
- Involving employees in improvement efforts
- Linking improvements to customer satisfaction
- Case study: Continuous improvement at a major car manufacturer

Module 11: Corrective and Preventive Action (CAPA)

- Understanding CAPA processes
- Identifying root causes for non-conformities
- Planning corrective actions
- Implementing preventive strategies
- Monitoring CAPA effectiveness
- Case study: CAPA in automotive production environment

Module 12: Customer Satisfaction and Feedback

- Measuring customer satisfaction
- Addressing customer complaints effectively
- Building loyalty through product reliability

- Communication strategies with customers
- Aligning feedback with continual improvement
- Case study: Customer-driven improvement at automotive supplier

Module 13: Documentation and Record Control

- Importance of documentation in ISO/TS 16949
- Creating and maintaining quality manuals
- Record retention requirements
- Document control software and tools
- Ensuring accessibility and traceability
- Case study: Effective record control in multinational suppliers

Module 14: Certification Preparation

- Understanding certification process
- Requirements for third-party audits
- Gap analysis for certification readiness
- Training employees for certification audits
- Maintaining compliance post-certification
- Case study: Organization achieving certification in 6 months

Module 15: ISO/TS 16949 and IATF 16949 Updates

- Transition from ISO/TS 16949 to IATF 16949
- Key differences and updates in requirements
- Future trends in automotive quality standards
- Preparing for future revisions
- Aligning strategies with industry trends
- Case study: Transition journey of a supplier to IATF compliance

Training Methodology

- Instructor-led classroom training sessions
- Real-world automotive industry case studies
- Group activities and workshops for practical learning
- Interactive discussions and Q&A sessions
- Hands-on exercises with quality tools
- Mock audits and role-play activities

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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