



IATF 16949 CORE TOOLS GRADUATE COURSE

**OFFERED BY RECOGNISED TRAINING PROVIDER (RTP)
NVT QUALITY CERTIFICATION PVT. LTD., INDIA
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GLOBAL CERTIFICATION AND TRAINING SERVICES



IATF 16949 CORE TOOLS GRADUATE COURSE



Course Features

IATF 16949:2016 standard requires competence of personnel in Core Tools for Product and Process Development, Manufacturing Process Controls.

This program is specially designed keeping in mind above requirement to fulfil competency in Core Tools. This includes continuous evaluation of knowledge of participants .

Course Objectives

- Provide a basic understanding of the Core Tools used in New Product Development as well as for ongoing process control for existing products.
- How to conduct SPC & MSA and interpret results.
- Focus on New product Development Assurance through APQP and PPAP
- Focus on the use of Process Management to achieve standardization and improvement using Process Flow Diagrams, Process FMEA, Process Control Plans, SPC and MSA.

Duration

24 hours

NVT QC AT A GLANCE

Over 25 Years experience

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Accredited by NABCB, India and ANAB, USA for certification of Quality management system of organizations.

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Recognized by EXEMPLAR GLOBAL as a training provider

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Presence in India, South East Asia, Middle East, Africa ,Europe and USA

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Proven Leadership in certification and training programs

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Over 10000 + audits in AQMS, QMS, EMS, ISMS, OHSAS, EnMS and IMS



Advanced Product Quality Planning (APQP) ver.2 July 2008

- Product Quality Planning Cycle
- Fundamentals of Product Quality Planning
- Control Plan
- Phases of APQP
- Inputs & Outputs of each phase

Failure Mode and Effect Analysis (FMEA) ver.1 June 2019

- FMEA Concept
- Advantages of FMEA
- Process & Design FMEA
- FMEA requirement in IATF 16949:2016
- How to Develop a FMEA
- Understanding of Severity, Occurrence & Detection Rankings
- Risk Priority Number (RPN)
- Preventive Actions

Measurement System Analysis (MSA) ver.4 June 2010

- Basic concepts & Definitions
- MSA Requirement in IATF 16949:2016
- Statistical properties of Measurement systems
- Preparation for a Measurement Study
- Bias Study
- Linearity Study
- Stability Study
- Gauge Repeatability & Reproducibility Study (Gauge R&R)
- Attribute MSA – Kappa Method

Statistical Process Control (SPC) ver. 2 July 2005

- Basic Definitions
- Common & Special Cause
- Process Control & Process Capability
- Process Improvement Cycle
- Effective use & benefit of control chart
- SPC Requirement in IATF 16949
- Control Chart Basics
- Elements and mechanics of control charts
- Variable control charts, Attribute control charts Process Capability Study

Production Part Approval Process (PPAP) ver.4 March 2006

- Purpose
- Comparison of PPAP with traditional approach
- Significant production run
- Requirements for part approval
- Situations when PPAP validation, customer notification & Submission required.
- PPAP submission levels



CONTACT US

Global:

NVT Quality Certification International

692, Canterbury Place, Milpitas, CA
95035, USA

+1 408-946-5517 / M +1 408-836-4370

Email: vishnu.mathur@nvtquality.com

India:

NVT Quality Certification

CAP-1, Export Promotion Industrial Park,
Near ITPL, Whitefield,
Bangalore-560 066

Phone: +91-88843 111 11/222 22/666 66

Email: nvt@nvtquality.com;

Web: www.nvtquality.com