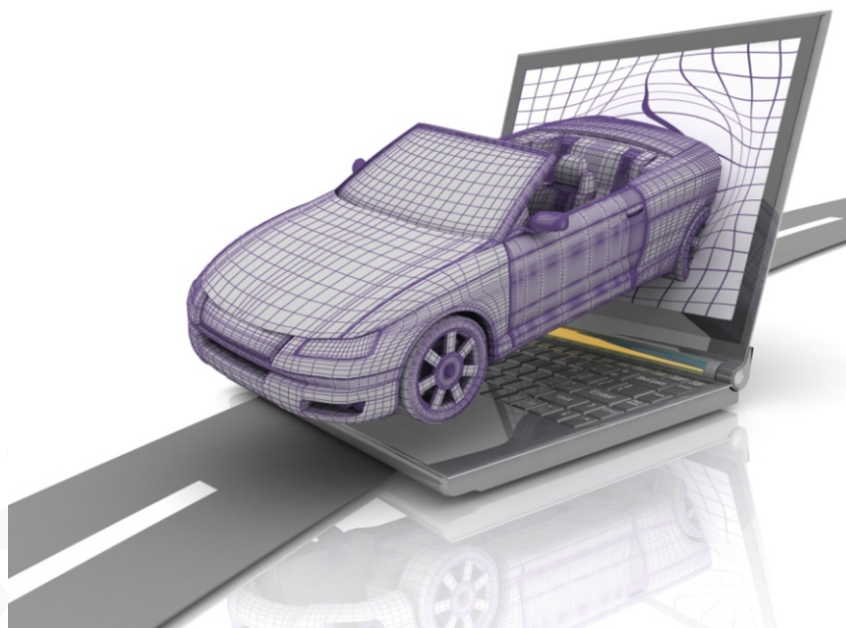




DRIVING WORLDWIDE BUSINESS EXCELLENCE

IATF 16949:2016 Product Auditor Training for Automotive Quality Management Systems



Training Duration : 3 Days

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Seminar Content

Although the ISO 9001 requirements have been removed from IATF 16949:2016 Automotive Quality Management System requirements and are published as a separate ISO standard, IATF 16949 is not a stand-alone standard and must be used in conjunction with ISO 9001, so Omnex is continuing to offer courses that cover both the ISO 9001:2015 and IATF 16949:2016 requirements.

This three-day course was developed to cover all additional Product Auditors requirements of both the ISO 9001:2015 and IATF 16949:2016 standards for Product Auditors.

The three-day Product Auditor Course was designed to provide the competencies required of Product Auditors including Blue Print Reading, GD&T, and understanding and using gages.

Who Should Attend

This seminar is primarily designed for Product auditor candidates, but can also be valuable for Quality Assurance Managers, IATF 16949:2016 Implementation and/or Transition Team Members, Management Representatives, and all others who would like to develop competency in IATF 16949:2016 and the auditing process for first party auditing.

Recommended Training and/or Experience

An understanding of both ISO 9001:2015 and IATF 16949:2016 requirements and/or work experience in applying IATF 16949:2016 is recommended.

Seminar Materials

Each participant will receive a seminar manual and a breakout workbook that includes automotive-based auditing case studies.

Seminar Goals

- ✦ Understand how Blueprint Reading related to IATF 16949:2016
- ✦ Interpret orthographic projection

- ✦ Recognize first-angle and third-angle projection
- ✦ Know when to use various types of lines
- ✦ Identify auxiliary and section views and place them properly
- ✦ Correctly interpret title and revision blocks
- ✦ Understand and apply dimensioning & tolerancing to a print
- ✦ Recognize GD&T symbols and datums
- ✦ Identify and explain manufacturing callouts such as screw threads and surface finish
- ✦ Understanding Variation and its effects on measurement
- ✦ Conducting MSA Studies and its applications
- ✦ Understand Gages and Gage Equipment
- ✦ To provide participants with an understanding of
- ✦ The importance of basic measuring equipment and its Measurement Systems.
- ✦ Measurement systems as a process for decision making
- ✦ The basic definitions used in measurement systems.
- ✦ Measurement techniques of common equipment including application, handling, and methods to use.
- ✦ Overview of causes of variation and its impact
- ✦ Basic concepts to be adopted during the

Seminar Outline

Day 1

- ✦ Blueprint Reading
 - Introduction
 - Importance of Engineering Drawings
 - Basic Steps in Reading a Print
 - Line Types: Visible, Hidden, Center, Extension, Dimension, Section, Leader, Phantom
 - The Title Block
 - Orthographic Projection Views
 - Visualizing in 3D
 - First vs. Third Angle Projection
 - Section Views
 - Dimensioning Practices
 - Plus/Minus vs. Limit Dimensions
 - Special Dimensions/Tolerances

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OMNEX INC

Global Headquarters Omnex Inc., 315 E. Eisenhower Parkway, Suite 214, Ann Arbor, MI 48108.USA.
Phone: (734) 761-4940 | Fax: (734) 761-4966 | Email: info@omnexus.com | Web: www.omnexus.com

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Day 2

- ❖ Geometric Dimensioning and Tolerancing
 - *The Need for GD&T*
 - *Definitions and Rules*
 - *Form*
 - *Datums*
 - *Profile Tolerances*
 - *Orientation*
 - *Position*
 - *Other Types of Location*
 - *Day Three*

Day 3

- ❖ Basic Definitions & Terminology
- ❖ Benefits of Correct Measurements
- ❖ Impact of Measurement Variation
- ❖ Causes of Measurement Variation
- ❖ Calibration and MSA – an overview
- ❖ Measuring Equipment & Measurement System



GLOBAL HEAD QUARTERS

OMNEX INC

Global Headquarters
Omnex Inc.,
315 E. Eisenhower Parkway,
Suite 214,
Ann Arbor, MI 48108.
Phone: (734) 761-4940
Fax: (734) 761-4966
Email: info@omnexus.com
www.omnexus.com

MAIN REGIONAL OFFICES

OMNEX CANADA

Email: info-ca@omnexus.com

OMNEX CHINA

Email: info-cn@omnexus.com

OMNEX EUROPE

Email: info-eu@omnexus.com

OMNEX INDIA

Email: info-in@omnexus.com

OMNEX MALAYSIA

Email: info-my@omnexus.com

OMNEX MEXICO

Email: info-mx@omnexus.com

OMNEX MIDDLE EAST

Email: info-me@omnexus.com

OMNEX UAE

Email: info-ae@omnexus.com

OMNEX SINGAPORE

Email: info-sg@omnexus.com

OMNEX THAILAND

Email: info-th@omnexus.com