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Course code: Q1605

Core Tools for IATF 16949

Core Tools are the automotive quality tools that building system of an effective quality management system. They include Advanced Product Quality Planning (APQP), Control Plan (CP), Production Part Approval Process (PPAP), Failure Mode and Effects Analysis (FMEA), Statistical Process Control (SPC) and Measurement System Analysis (MSA). This course helps aspiring participants to understand how core tools helps to continual improve organisational management system using its best practice. Participants learn the details of each clauses of the standard requirement to be able to apply within their organization.

OBJECTIVE

- To describe the concept overview of quality system.
- To provide knowledge on quality management system and describe how core tools is applied.
- To explain the importance of core tools in quality management system.
- To build awareness and encourage continual improvement within organization.

CONTENT

- **Session 1: Introduction**

Describe overview of core tools in automotive. Provide understanding of the core tools used in new product development and operation process.

- **Session 2: Terms and Definitions**

Describe relevant terms and definitions that normally use improvement in the quality and related fields.

- **Session 3: Core tools-FMEA/SPC/MSA**

Describe core tools of Failure Mode and Effects Analysis (FMEA), Measurement Systems Analysis (MSA), and, Statistical Process Control (SPC).

- **Session 4: Core tools-APQP/PPAP**

Describe core tools of Advanced Product Quality Planning (APQP) and Product Part Approval Process (PPAP). Explain systematic process steps and provide understanding of problem solving for continual improvement.

PREREQUISITES

Basic knowledge in automotive quality system is necessary. Experience in any industry will be more benefit.

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