

Course Syllabus

AIAG Core Tools (40hrs)

Core Tools are the fundamental building blocks of an effective quality management system (QMS); most commonly used within the automotive supply chain. Since their creation, various other sectors such as aerospace, medical devices, etc. have incorporated their use in improving internal and supply chain performance. Each course day, as well as individual module, can be offered ala carte either onsite or through open enrollment. Each 8-hour class is worth 0.8 CEUs.

Day	Overview of Training Events
1	The history & purpose of AIAG Core Tools Connection to IATF 16949:2016 requirements APQP - Advanced Product Quality Planning Overview of APQP and connection to PPAP Connecting APQP to the Control Plan Exercises & quizzes (optional)
2	FMEA - Failure Mode & Effects Analysis Overview of FMEA and connection to CP Creating PFDs to map major process steps DFMEA (product DESIGN) vs PFMEA (manufacturing PROCESS) Process Flow Diagram (PFD) > FMEA Exercises & quizzes (optional)
3	CP - Control Plan Overview of CP and connection to operations Connecting the PFD > FMEA > CP Prototype vs pre-production vs production control plans Comparing controls to actual operations Exercises & quizzes (optional)

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Day	Overview of Training Events
4	MSA - Measurement System Analysis Overview of measurement systems Measurement bias simulation or in practice Connecting MSA studies to operational controls & methods SPC - Statistical Process Control Exercises & quizzes (optional)
5	Connecting SPC to operational controls & methods PPAP - Production Part Approval Process Overview of PPAP and the Part Submission Warrant (PSW) Tips for achieving customer approval the first time Course material review, Q&A, lessons learned Final Exam

OPTIONAL ADD-ON: Assessment Workshop

- FMEA > Control plan assessment
- Summary & presentation of findings
- Planning of next steps for sustainability