

Submission Requirements
Quick Reference
(For Internal Cooper use Only)

Note: This document is meant as a desk reference for Cooper Industries PPAP submissions. Complete guidelines and definitions are provided in the Cooper Industries PPAP manual. Application and defined requirements are at the discretion of your Cooper Divisional Quality Representative. Contact them with any additional questions.

Element Order	PPAP Requirements Add PPAP Fourth Edition	Level					Required Documents	Additional Comments and Clarity
		Level 1	Level 2	Level 3	Level 4	Level 5		
1	Part Submission Warrant (PSW)					AR	Cooper PSW only	Cooper PSW is required for all submissions and required on all Cooper designed parts.
2	Design Records & Subtitled part prints(s).					AR	Cooper Divisional Part Print	Include one clean copy of the current approved revision print with all dimensions, applicable specifications, and notes, subtitled (circle with corresponding number) on the print for reference to dimensional report.
3	Approved Engineering Change Documentation					AR AR	Various engineering documentation	Any formal documentation that is not reflected in the current released print such as un-released marked up prints, formal engineering changes and any pertinent engineering correspondence.
4	Customer Engineering Approvals						Asst Required for Cooper Submissions	Not used with Cooper Industries submissions.
5	Design FMEA,		AR			AR	Can be Cooper FMEA Format or an AIAG compliant DFMEA.	Required only if supplier is responsible for part design.
6	Process Flow Diagrams					AR	Any standard flowchart format.	Identifies all process steps from receiving to shipping/warehouse operations. Must include all offline and in process inspections and testing including ongoing routine performance checks such as annual dimensional layouts. Process steps must match the FMEA and Control Plan steps.
7	Process FMEA,					AR	Can be Cooper PFMEA Format or an AIAG compliant PFMEA.	FMEA must be AIAG or comparable format that contains the same information as the AIAG form. Process steps must match Process Flow Chart, Control Plan and address all characteristics associated with each operation. RPN numbers must be in accordance with AIAG guidelines with critical processes and inspections identified. Recommended Actions for high RPN totals are required.
8	Control Plan					AR	Can be Cooper Control Plan format or AIAG compliant format.	Control Plan must be AIAG or comparable format that contains the same information. Must match the Flow Chart/FMEA, process steps and describe the actions of each phase of the manufacturing process from receiving to shipping/warehouse. All CTQs and SPC items must be addressed within the corresponding process step. Any dedicated checking/testing fixtures that are used will be identified along with the numbered characteristics if measures/verifies/feels on the print. All CTQ's must be identified in the control plan.
9	Measurement System Analysis Studies		AR			AR	Cooper GRR format or any statistical package format for gage RMR.	Requires an analysis of the capability of all measuring tools identified in the Control Plan (in process or offline) used in the decision making process of normal production. As a minimum gauge RMRs, using percent of total tolerance must be included for all process tools used in determining acceptability of equipment measurement capability.
10	Dimensional Results					AR	Must be on Cooper Dimensional report format.	Cooper Dimensional Data Sheet is only acceptable format.
11	Material, Performance Test Results		AR			AR	Industry Standard reports or test result formats designated by Cooper Industries.	Certificates of Analysis for all primary raw materials such as chemicals, plastic resins and rubber. Chemical composition test reports for all metals and controlled substances. Performance life testing results such as salt spray, impact testing, heat, humidity, electrical performance, etc. when required either by print, specification or specific request by Cooper representative to be submitted on AIAG forms (CPG-1004, CPG-1005, or equivalent). For Catalog Parts Generic or family data maybe substituted with prior approval. AEC Qualification testing or equivalent is required for semiconductor devices. Any gaps between supplier qualification testing and AEC qualification testing requirements should be documented and approved by Cooper Prior to submission.
12	Initial Process Study (Cpk) Capability Studies		AR			AR	Process Capability Study using any statistical package or Cooper Capability Data Forms.	A short term study of process control capability (Cpk), must come from one continuous significant production run. At least 100 individual samples must be used for Cpk calculations. Multi-cavity tools would require a separate study per cavity. Supplier must have minimum Cpk value of 1.33 on all CTQs. No attribute data will be accepted for any PPAP submissions or Initial Process Study. If CTQs are HOC identified on the print, the supplier will identify a minimum of two characteristics that have a direct effect on fit, form, or function and perform Initial Process Studies on them.
13	Qualified Laboratory Documentation					AR	Lab Scope and outside lab proof of accreditation.	A Quality Record that contains the specific tests/evaluations/calibrations that your facility performs, a list of your personnel's competency to perform these tests/evaluations/calibrations, a list of all measuring equipment used during production, and a list of methods and standards used to calibrate those tools. NOTE: All outside calibration or testing labs are required to show proof of certification.
14	Appearance Approval Report	AR	AR	AR	AR	AR	AIAG format AAR	Needed only if part has color, grain, or some other cosmetic appearance requirement specified on the part print, or if specifically requested by Cooper to clarify a cosmetic requirement not clearly identified on a print. Format is AIAG form CPG-1002.
15	Sample Product Parts					AR	Parts tagged in accordance with Cooper PPAP reference manual	The organization shall provide 3 sample parts WITH EVERY submission unless otherwise requested. Multi-cavity tools require 1 part per cavity.
16	Master Samples						Required only for level 5	Not required for submission but must be maintained by the supplier.
17	Checking aids					AR	Checking and design prints and GRR for checking fixtures.	Any part specific fixture, gauge, model or template. Tooling/gauges/fixtures must include design prints and a 3rd party layout confirming conformity to print.

18	Customer Specific Requirements						Documents as specified by Cooper Industries	
A	Tooling Information Form					AR	Specific Cooper Document	Applies to all Cooper owned tooling. Typical application includes information and pictures on production tools such size, maximum cycles, ownership etc.
B	Packaging Form					AR	Specific Cooper Document	Used to outline and verify both external and internal packaging requirements including any related testing.
C	Inspection Plan (All features only)	AR	AR	AR	AR		Specific AIAG Format	Specific format used by many AEC suppliers to document quality inspections
D	Specification Deviation Form	AR	AR	AR	AR		Specific Cooper Document	Used for any requirement that is non-conforming and requires review by Cooper to provide for approval of the PPAP submission. The supplier must provide a recommended action plan for any issue identified on the Specification Deviation Form.
E	Supplier PPAP Checklist					AR	Specific Cooper Document	To be submitted with every submission level except level 1 and must be signed by supplier representative. Used as both a reference/checklist tool as well as a verification that the right documentation is provided at the time of submission.

Cooper Industries PPAP Submission Levels (in compliance with AIAG Fourth Edition PPAP March 2008 release)

Level 1	Warrant only and Appearance Approval Report as requested submitted to the customer. Applied to: Non-critical parts, non-critical resins/rub material or catalog commodity parts for electrical applications, and re-certification of existing parts previously approved by Cooper at levels 3, 4 or 5. Also used for Self Certification.
Level 2	Warrant with product samples and limited supporting data submitted to the customer. Applied to: Critical Bulk products such as Plastic/Powder/Chemicals, critical fasteners, simple material changes, simple revision level only changes or simple print updates not affecting form-fit-function. This level can also be applied to low and medium risk parts within a product family.
Level 3	Warrant with product samples and complete supporting data submitted to customer. Default Cooper Industries Submission Level. Applied to: All new parts on Cooper programs. All changes affecting form-fit-function, reliability, or performance. All product resources to new suppliers, initial production parts, existing high risk parts undergoing a part number change.
Level 4	Warrant and other requirements as defined by the customer. This level is reserved for special applications only. Applied to: This level can only be applied with prior approval from the designated Divisional Cooper Quality PPAP representative.
Level 5	Warrant with product samples and complete supporting data reviewed at the supplier's manufacturing location. Applied to: On site review as requested by each Cooper Division

Aiag 4th Edition Ppap Forms

D. H. Stamatis



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Automotive Process Audits D. H. Stamatis, 2021-04-29 With a detailed discussion on the preparation and tools needed for an automotive process audit this book addresses the fundamental issues and concerns by focusing on two objectives explaining the methods and tools used in the process for the organization and provide a reference or manual for dealing with documenting quality issues This book addresses the fundamental issues and concerns for a successful automotive process audit and details specifically how to prepare for it It presents a complete assessment of what an organization must do to earn certification in ISO standards industry standards and customer specific requirements It also focuses on the efficiency of resources within an organization so that an audit can be successful and describes the methodologies to optimize the process by knowing what to do what to say and how to prove it A road map is offered for the process audit and the layered audit and defines a clear distinction between the preparation details for each This book is intended for those that conduct audits those who are interested in auditing and those who are being audited It specifically addresses how to prepare for an automotive process audit for readers who are involved in quality manufacturing and operations management and those who work with suppliers

Functional Safety for Road Vehicles Hans-Leo Ross, 2016-07-25 This book highlights the current challenges for engineers involved in product development and the associated changes in procedure they make necessary Methods for systematically analyzing the requirements for safety and security mechanisms are described using examples of how they are implemented in software and hardware and how their effectiveness can be demonstrated in terms of functional and design safety are discussed Given today's new E mobility and automated driving approaches new challenges are arising and further issues concerning Road Vehicle Safety and Road Traffic Safety have to be resolved To address the growing complexity of vehicle functions as well as the increasing need to accommodate interdisciplinary project teams previous development approaches now have to be reconsidered and system engineering approaches and proven management systems need to be supplemented or wholly redefined The book presents a continuous system development process starting with the basic requirements of quality management and continuing until the release of a vehicle and its components for road use Attention is paid to the necessary definition of the respective development item the threat hazard and risk analysis safety concepts and their relation to architecture development while the book also addresses the aspects of product realization in mechanics electronics and software as well as for subsequent testing verification integration and validation phases In November 2011 requirements for the Functional Safety FuSa of road vehicles were first published in ISO 26262 The processes and methods described here are intended to show developers how vehicle systems can be implemented according to ISO 26262 so that their compliance with the relevant standards can be demonstrated as part of a safety case including audits reviews and assessments

Advanced Product Quality Planning D. H. Stamatis, 2018-11-12 This book defines develops and examines the foundations of the APQP Advanced Product Quality Planning methodology It explains in detail the five phases and it relates

its significance to national international and customer specific standards It also includes additional information on the PPAP Production Part Approval Process Risk Warranty GD T Geometric Dimensioning and Tolerancing and the role of leadership as they apply to the continual improvement process of any organization Features Defines and explains the five stages of APQP in detail Identifies and zeroes in on the critical steps of the APQP methodology Covers the issue of risk as it is defined in the ISO 9001 IATF 16949 the pending VDA and the OEM requirements Presents the role of leadership and management in the APQP methodology Summarizes all of the change requirements of the IATF standard

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Table of Contents Aiag 4th Edition Ppap Forms

1. Understanding the eBook Aiag 4th Edition Ppap Forms
 - The Rise of Digital Reading Aiag 4th Edition Ppap Forms
 - Advantages of eBooks Over Traditional Books
2. Identifying Aiag 4th Edition Ppap Forms
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aiag 4th Edition Ppap Forms
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aiag 4th Edition Ppap Forms
 - Personalized Recommendations
 - Aiag 4th Edition Ppap Forms User Reviews and Ratings
 - Aiag 4th Edition Ppap Forms and Bestseller Lists

5. Accessing Aiag 4th Edition Ppap Forms Free and Paid eBooks
 - Aiag 4th Edition Ppap Forms Public Domain eBooks
 - Aiag 4th Edition Ppap Forms eBook Subscription Services
 - Aiag 4th Edition Ppap Forms Budget-Friendly Options
6. Navigating Aiag 4th Edition Ppap Forms eBook Formats
 - ePub, PDF, MOBI, and More
 - Aiag 4th Edition Ppap Forms Compatibility with Devices
 - Aiag 4th Edition Ppap Forms Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aiag 4th Edition Ppap Forms
 - Highlighting and Note-Taking Aiag 4th Edition Ppap Forms
 - Interactive Elements Aiag 4th Edition Ppap Forms
8. Staying Engaged with Aiag 4th Edition Ppap Forms
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aiag 4th Edition Ppap Forms
9. Balancing eBooks and Physical Books Aiag 4th Edition Ppap Forms
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aiag 4th Edition Ppap Forms
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Aiag 4th Edition Ppap Forms
 - Setting Reading Goals Aiag 4th Edition Ppap Forms
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aiag 4th Edition Ppap Forms
 - Fact-Checking eBook Content of Aiag 4th Edition Ppap Forms
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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