



Document	PPAP Requirements and Part Number Status Important: Submit your documents in this order	Required Documents					Additional Comments and Clarify	
		Level 1	Level 2	Level 3	Level 4	Level 5		
1	Part Submission Warrant (PWSR)				As-Is	Cooper PWSR only	Cooper PWSR is required for all submissions and required on all Cooper designed parts.	
2	Design Records & (Published part printed).				As-Is	Cooper Divisional Part (Print)	Include one clean copy of the document approved revision print with all dimensions, applicable specifications, and notes, published (circle with corresponding number) on the print, for reference to dimensional report.	
3	Approved Engineering Change Documentation				As-Is	Internal 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					Not Required for Cooper Submissions	Not used with Cooper Industries submissions.	
5	Design FMEA		As-Is	As-Is	As-Is	Can be Cooper (PFMEA) Format or an AS9102 compliant (PFMEA)	Required only if supplier is responsible for part design.	
6	Process Flow Diagrams				As-Is	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 conformance checks such as demand dimensional layouts. Process steps must match PFMEA and Control Plan (CP).	
7	Process FMEA				As-Is	Can be Cooper (PFMEA) Format or an AS9102 compliant (PFMEA)	PFMEA must be AS9102 or comparable format that contains the same information as the AS9102 form. Process steps must match Process Flow Chart, Control Plan and address all characteristics associated with each operation. FMEA numbers must be in accordance with AS9102 guidelines with critical processes and inspections identified. Recommended Actions for high PPFN must be identified in the numbered lines.	
8	Control Plan				As-Is	Can be Cooper supplied format or AS9102 compliant format	Control Plan must be AS9102 or comparable format that contains the same information. Must match the Process Flowchart/FMEA, process steps and describe the outcome 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 check/audit fixture that will be identified along with the numbered characteristics & measurements/verifications on the print. All CTQs must be identified in the numbered lines.	
9	Measurement System Analysis Studies		As-Is	As-Is		Cooper QMR format or any standard gauge usage format (not gauge FMEA)	Provides an analysis of the capability of all measuring tools identified in the Control Plan (in process or offline) used in the process/inspecting process of normal production. As a minimum gauge FMRs, using percent of total tolerance must be included for all process tools used in determining acceptability of equipment measurement capability.	
10	Dimensional Results			As-Is		Must be on Cooper Dimensional report format	Cooper Dimensional Data Sheet is only acceptable format.	
11	Material, Performance Test Results		As-Is	As-Is		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 secondary raw materials. Performance test results such as melt index, impact testing, heat, tensile, electrical performance etc. when required within the print, specification or AS9102 revision to Cooper representative to be reviewed on AS9102 (CQD-1004, CQD-1005, or equivalent). For Customer Parts (Generic or family data) must be submitted with prior approval. AS9102 Qualification testing or equivalent is required for semiconductor devices. Any gauge replacement requirement testing and AS9102 qualification testing requirements should be documented and approved by Cooper prior to submission.	
12	Initial Process Study (Cpk) Capability Studies		As-Is	As-Is		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 values of 1.63 on all CTQs. No attribute data will be accepted for any PPAP submission. For initial Process Study, if CTQs are NOT identified on this print, the supplier will identify a maximum of two characteristics that have a direct effect on fit, form, or function and perform initial Process Studies on them.	
13	Qualified Laboratory Documentation			As-Is		Lab Scope and outside lab proof of accreditation.	A Quality Protocol that contains the specific test/evaluations/calibrations that your facility performs, a list of your performance's competency to perform these tests/calibrations/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 accreditation.	
14	Appearance Approval (Report)	As-Is	As-Is	As-Is	As-Is	AS9102 format AS9102	Required only if part has color, grain, or some other cosmetic appearance requirements specified on this part print, or if specifically requested by Cooper to identify a cosmetic requirement not clearly identified on print. Format is AS9102 form (CQD-1002).	
15	Sample Product Parts			As-Is		Parts tagged in accordance with Cooper PPAP reference material.	The organization shall provide 3 sample parts with the ENVPRT 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			As-Is		Checking and design prints and CQD for checking aids.	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		
19	Testing Information Form			As-Is		Specific Cooper Document	Applies to all Cooper owned tooling. Typical application includes information and pictures on production tools such as, maximum cycles, (inching etc.)	
20	Packaging Form			As-Is		Specific Cooper Document	Used to outline and verify both external and internal packaging requirements including any related testing.	
21	Inspection (Plan and Report) Form	As-Is	As-Is	As-Is	As-Is	Specific AS9102 Format	Specific format used by many AS9102 suppliers to document quality inspections.	
22	Specification Deviations Form	As-Is	As-Is	As-Is	As-Is	Specific Cooper Document	Used for any requirement that is not conformance and requires review by Cooper to determine if rejection of the PPAP submission. The supplier must provide a recommended action plan for any issue identified on the Specification Deviations Form.	
23	Supplier PPAP Checklist			As-Is		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/checkbox tool as well as verification that the right documentation is provided at the time of submission.	

**Cooper Industries (PPAP) Submission Levels (in compliance with AS9102 Fourth Edition PPAP Manual, 2008 release)**

Level 1	Warrant only and Appearance Approval Report are required/reviewed at this requirement. <b>Approved by:</b> "Non critical" parts, "non critical" rejectable material or catalog/commodity parts, for electrical components and review/revision of existing parts previously approved by Cooper on levels 3, 4 or 5. <b>As-Is</b> used for SPC Certification.
Level 2	Warrant with production samples and detailed supporting data submitted to the customer. <b>Approved by:</b> Critical bulk products such as Plastic/Plastic/Chemicals, circuit boards, complex material changes, material rejection (reject only), changes or design print updates not affecting form/function. This level can also be applied to low and medium risk parts within a product family.
Level 3	Warrant with production samples and complete supporting data submitted to the customer. <b>Approved by:</b> Cooper Industries Submission Level. <b>Approved by:</b> All new parts on Cooper programs. All changes affecting form, function, reliability, or performance. All product resources to new suppliers, new production parts, existing high risk parts undergoing a part number change.
Level 4	Warrant with other requirements as defined by the customer. This level is reserved for special applications only. <b>Approved by:</b> This level can only be applied with prior approval from the designated Divisional Cooper Quality PPAP representative.
Level 5	Warrant with production samples and complete supporting data reviewed at the supplier's manufacturing location. <b>Approved by:</b> On site review as requested by each Cooper Division. <b>Approved by:</b> This level can only be applied with prior approval from the designated Divisional Cooper Quality PPAP representative.

Required for PPAP submission



Not required



Documents are a copy by customer are marked **As-Is** for "As Required".



Not Applicable



# Aiag Ppap Manual For Forms And Instructions

**Christian G. Meyer**

## **Aiag Ppap Manual For Forms And Instructions:**

**Qs-9000 Registration and Implementation** Naroola,1996-09-04 Focuses on the improvement of quality customer satisfaction and profitability The text provides a proven step by step method for achieving QS 9000 registration economically and efficiently TAP PDSA Train Analyze and Plan Plan Do Study Act It delineates successful registration efforts conducted by the author using the TAP PDSA approach

**The QS-9000 Answer Book** Radley M. Smith,1996 No one is better qualified to explain QS 9000 than Radley Smith the co author of the QS 9000 standard The QS 9000 Answer Book explains in clear concise language what QS 9000 is how it works and how it will affect your organization Smith walks readers through QS 9000's three sections and provides insight into common audit problems and how to avoid them In addition common QS 9000 questions are answered

*Practical Auditing Techniques for ISO/TS-16949* Raymond Ness,2003 A pragmatic approach to the field of auditing for automotive industry auditors This book is also helpful to educate internal auditors and anyone who is involved with automotive production worldwide The contents are to the international specification from Geneva Switzerland IOS The book is aimed for those personnel in the technical field It is a step by step format with anecdotal references to actual occurrences from real experience in the auditing field

*Quality Improvement Through Statistical Methods* Bovas Abraham,2012-12-06 This book is based on the papers presented at the International Conference Quality Improvement through Statistical Methods in Cochin India during December 28 31 1996 The Conference was hosted by the Cochin University of Science and Technology Cochin India and sponsored by the Institute for Improvement in Quality and Productivity IIQP at the University of Waterloo Canada the Statistics in Industry Committee of the International Statistical Institute ISI and by the Indian Statistical Institute There has been an increased interest in Quality Improvement QI activities in many organizations during the last several years since the airing of the NBC television program If Japan can why can't we Implementation of QI methods requires statistical thinking and the utilization of statistical tools thus there has been a renewed interest in statistical methods applicable to industry and technology This revitalized enthusiasm has created worldwide discussions on Industrial Statistics Research and QI ideas at several international conferences in recent years The purpose of this conference was to provide a forum for presenting and exchanging ideas in Statistical Methods and for enhancing the transference of such technologies to quality improvement efforts in various sectors It also provided an opportunity for interaction between industrial practitioners and academia It was intended that the exchange of experiences and ideas would foster new international collaborations in research and other technology transfers

**Advanced Product Quality Planning** D. H. Stamatilis,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 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 Production Part Approval Process (PPAP)

,2000 **Aerospace America** ,2002 **The Progressive Audit** Robert Pfannerstill,2005-06-30 The Progressive Audit is a book that anyone involved with auditing should read This book is not just about auditing but also about management strategy employee involvement and raising the level of the organizational quality culture An audit must provide an understanding of the level at which the quality culture exists so management can implement improvements It must uncover the various sub systems that exist within organizations and also raise the level of understanding in the workforce This book outlines a six step methodology to implement a sound internal audit program including how to get employees to actively participate how to drive quality system concepts throughout all levels in the organization and how to manage it so you're not doing all the work

**Automotive Audits** D. H. Stamat,2021-03-16 This book addresses the essentials of an automotive audit which is required by all automotive suppliers world wide They are based on customer specific requirements ISO standards and Industry specifications This book covers both the mandated documents and records that are necessary for compliance with an extensive discussion on Layered Process Audits and distance auditing The book addresses the six standards for certification in one volume It explains why and how an effective audit should be carried out It identifies the key indicators for a culture change with an audit explains the process audit at length discusses the rationale for Layered Process audits and summarizes all the mandatory documents and records for all standards and requirements The book covers the issue of risk in auditing and emphasizes the role of a checklist in the preparation process This book is for those that conduct audits those that are interested in auditing and those being audited It specifically addresses automotive OEMs and their supplier base but is also of interest to anyone wanting information on auditing *Automotive Engineering* ,1995 *EDN* ,2008

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web expanded polystyrene eps and properties when the polystyrene raw material contacts the water vapor the pentane gas granules within the material are expanded when these expanded gas granules adhere to each other expanded polystyrene eps is formed it is used for packaging and for heat insulation

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werden in oktabins zum verarbeiter transportiert werden die kügelchen dort unter wasserdampf etwas über 100 c erwärmt expandiert das gas und der thermoplastische kunststoff bläht sich auf

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web expanded polystyrene or eps is widely used commodity polymer it has been a material of choice for more than 50 years because of its versatility performance and cost effectiveness it is widely used in many everyday applications such as fish boxes bicycle helmets and insulation material

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