

PPAP

Production Part Approval Process

Submission Requirements

Quick Reference

(For Internal Cooper use Only)

Note: This document is meant to be a desk reference for Cooper Industries PPAP submissions. Complete guidelines and definition 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.

Item Order	PPAP Requirements As of PPAP Fourth Edition	Level 1	Level 2	Level 3	Level 4	Level 5	Required Documents	Additional Comments and Clarity
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 & Bubbleed 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, bubbleed (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						Not Required for Cooper Submissions	Not used with Cooper Industries submissions.
5	Design FMEA,				AR	AR	Can be Cooper FMEA Form 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 PFMEA and Control Plan steps.
7	Process FMEA				AR		Can be Cooper PFMEA Form or an AIAG compliant PFMEA.	PFMEA 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 items are required.
8	Control Plan				AR		Can be Cooper Control Plan 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 CTQ's and SPC items must be addressed within the corresponding process step. Any dedicated check/testing features that are used will be identified along with the numbered characteristics if measures/verifies/tests 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.	Require 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 lab 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 CTQ's. No attribute data will be accepted for any PPAP submissions for Initial Process Study. If CTQ's are NOT 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 test/evaluation/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 (AIAG Inspection card)		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 2006 release)

Level 1: Warrant only and Appearance Approval Report as requested submitted to the customer. **Applied to:** "non-critical" parts, "non critical" rework, 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

Required for PPAP submission

Not required

Documents on a call by case basis are marked AR for "As Requested"

AR

If Applicable

AR

Aiag Ppap 4th Edition Manual

**Harvey Fred Walker,Donald W.
Benbow**



Aiag Ppap 4th Edition Manual:

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 Global Standards and Publications Edition 2023 - 2024 Van Haren Publishing, 2023-02-05 Van Haren Publishing is the world's leading publisher in best practice methods and standards within IT Management Project Management Enterprise Architecture and Business Management We are the official publisher for some of the world's leading organizations and their frameworks including BIAN CATS DID Foundation Half Double Institute Agile Consortium IACCM IAOP IPMA ISM LSSA Nederlandse AI Coalitie PMI The Open Group This catalog will provide you with an overview of our learning solutions and training material but also gives you a quality summary on internationally relevant frameworks Van Haren Publishing is an independent worldwide recognized publisher well known for our extensive professional network authors reviewers and accreditation bodies of standards flexibility and years of experience We make content available in hard copy and digital formats designed to suit your personal preference iPad Kindle and online available through over 2000 distribution partners Amazon Google Play Managementboek and Bol.com etc

Lean Six Sigma Yellow Belt - English version ir. H.C. Theisens, 2021-10-14 This book is intended for those who want to get started with carrying out improvement projects on the shop floor or in their own work environment In addition this book is intended for anyone who participates as a team member in a larger Lean or Six Sigma Green or Black Belt project In terms of structure this book follows the LSSA syllabus for Lean Six Sigma Yellow Belt All techniques mentioned in this syllabus are covered in this book It is advised to also use the accompanying exercise book *Lean Six Sigma Orange Belt - English version* ir. H.C. Theisens, 2021-10-14 This book is intended for those who want to get started with carrying out improvement projects on the shop floor or in their own work environment In addition this book is intended for anyone who participates as a team member in a larger Lean or Six Sigma Green or Black Belt project The structure of this book is based on the Continuous Improvement Maturity Model CIMM The CIMM framework connects various improvement methods such as Agile Kaizen Lean and Six Sigma and lists the most commonly applied techniques in the field of continuous improvement and quality management The framework also connects the so called hard and soft elements of the transformation process that organizations have to deal with if they want to implement continuous improvement more firmly

The CIMM framework is discussed in section In terms of structure this book follows the LSSA syllabus for Lean Six Sigma Orange Belt All techniques mentioned in this syllabus are covered in this book It is advised to also use the accompanying exercise book Those wishing to obtain their certification are advised to read the information in Appendix A Those who wish to apply Lean or Six Sigma at a Yellow Green or Black Belt level are advised to read one of the other books in the series Climbing the Mountain and use the corresponding exercise book

Lean Six Sigma Green Belt - English version ir. H.C. Theisens, 2021-10-14 The structure of this book is based on the LSSA Skill set for Lean and Six Sigma Green Belt All of the techniques described in these Skill set will be reviewed in this book The Lean elements will be discussed in chapter 1 to 6 The Six Sigma elements will be discussed in chapters 7 and 8 This book can be used for two purposes Firstly it acts as a guide for Green Belts undertaking a Lean or Six Sigma project following the DMAIC roadmap Define Measure Analyze Improve Control Secondly this book serves to determine where the organization stands and what the best strategy is to get to a higher CIMM level

Lean Six Sigma Black Belt ir. H.C. Theisens, 2021-10-14 The structure of this book is based on the LSSA Skill set for Lean and Six Sigma Green Belt All of the techniques described in these Skill set will be reviewed in this book The Lean elements will be discussed in chapter 1 to 6 The Six Sigma elements will be discussed in chapters 7 and 8 This book can be used for two purposes Firstly it acts as a guide for Green Belts undertaking a Lean or Six Sigma project following the DMAIC roadmap Define Measure Analyze Improve Control Secondly this book serves to determine where the organization stands and what the best strategy is to get to a higher CIMM level

The ASQ Certified Quality Technician Handbook Harvey Fred Walker, Donald W. Benbow, 2025-01-05 Designed to aid candidates in preparing for ASQ Certified Quality Technician CQT certification exam this fourth edition aligns with the 2024 ASQ CQT Body of Knowledge BoK It also serves as an ideal reference for quality professionals responsible for implementing quality concepts and tools on the job The editors have included statistical techniques calibration and metrology procedures inspection and testing techniques and corrective and preventive action as well as examples with algebra based math throughout the book to show practical application of the material

Quality Planning and Assurance Herman Tang, 2021-11-23 QUALITY PLANNING AND ASSURANCE Discover the most crucial aspects of quality systems planning critical to manufacturing and service success In Quality Planning and Assurance Principles Approaches and Methods for Product and Service Development accomplished engineer Dr Herman Tang delivers an incisive presentation of the principles of quality systems planning The book begins with an introduction to the meaning of the word quality before moving on to review the principles of quality strategy and policy management The author then offers a detailed discussion of customer needs and the corresponding quality planning tasks in design phases as well as a treatment of the design processes necessary to ensure product or service quality Readers will enjoy explorations of advanced topics related to proactive approaches to quality management like failure modes and effects analysis FMEA They ll discover discussions of issues like supplier quality management and the key processes

associated with quality planning and execution The book also includes A thorough introduction to quality planning including definitions discussions of quality system and an overview of the planning process A comprehensive exploration of strategic planning development including strategic management risk management and analysis and pull and push strategies Practical discussions of customer centric planning including customer oriented design quality function deployment and affective engineering In depth examinations of quality assurance by design including the design review process design verification and validation and concurrent engineering Perfect for senior undergraduate and graduate students in technology and management programs Quality Planning and Assurance will also earn a place in the libraries of managers and technical specialists in a wide range of fields including quality management

Probabilistic Design for Optimization and Robustness for Engineers Bryan Dodson,Patrick Hammett,Rene Klerx,2014-07-21 Probabilistic Design for Optimization and Robustness Presents the theory of modeling with variation using physical models and methods for practical applications on designs more insensitive to variation Provides a comprehensive guide to optimization and robustness for probabilistic design Features examples case studies and exercises throughout The methods presented can be applied to a wide range of disciplines such as mechanics electrics chemistry aerospace industry and engineering This text is supported by an accompanying website featuring videos interactive animations to aid the readers understanding [Lean Six Sigma Green Belt - Dutch version](#) ir. H.C. Theisens,2021-10-14 Dit boek kan worden gebruikt voor twee doeleinden Enerzijds fungeert dit boek als een richtlijn voor de Green Belt om een Lean of Six Sigma verbeterproject te doorlopen Anderzijds fungeert dit boek om te bepalen waar de organisatie staat en wat de beste strategie is om op een hoger CIMM niveau te komen De structuur van dit boek is gebaseerd op het CIMM raamwerk en volgt de LSSA syllabus voor Lean Six Sigma Green Belt Alle technieken die in deze syllabus worden benoemd zullen in dit boek worden behandeld Dit boek kan gebruikt worden voor diegenen die Kaizen en Lean willen toepassen en voor diegenen die naast Lean ook Six Sigma willen gaan toepassen Voor de eerste groep volstaat het om hoofdstuk 1 tot en met 6 te lezen Six Sigma wordt behandeld in hoofdstuk 7 Het wordt geadviseerd om ook gebruik te maken van het bijbehorende oefenboek Diegenen die hun certificering willen behalen wordt geadviseerd om de informatie in Bijlage A en B te lezen Diegenen die Lean of Six Sigma willen toepassen op een Yellow Belt of Black Belt niveau wordt geadviseerd om een van de andere boeken van de reeks De Beklimming of Climbing the Mountain te lezen en gebruik te maken van het bijbehorende oefenboek

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Aiag Ppap 4th Edition Manual Introduction

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load balancing nedir load balancer nasıl ve hangi vargonen - Aug 06 2023

web load balancing özelliği kullanılmayan bir sistemde kullanıcılar doğrudan alanadi com gibi bir web servisine erişmek istediklerini bu alan adının üzerinde çalıştığı tek bir web sunucusuna bağlanır haliyle bu üzerinde oluşabilecek sorun durumunda kullanıcılar web sitesine erişemezler

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web a load balancer is a device that sits between the user and the server group and acts as an invisible facilitator ensuring that all resource servers are used equally what are the benefits of load balancing load balancing directs and controls internet traffic between the application servers and their visitors or clients

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web feb 14 2017 load balancing is a key component of highly available infrastructures commonly used to improve the performance and reliability of web sites applications databases and other services by distributing the workload across multiple servers a web infrastructure with no load balancing might look something like the following

what is server load balancing slb glossary a10 networks - Jul 25 2022

web server load balancing slb is a data center architecture that distributes network traffic evenly across a group of servers the distributed workloads ensure application availability scale out of server resources and health management of server and application systems server load balancer systems are often located between the internet edge

what is load balancing and how does it work phoenixnap - Dec 30 2022

web jun 30 2021 once the load balancer receives a request it determines which server in a pool is available and then routes the request to that server by routing the requests to available servers or servers with lower workloads load balancing takes the pressure off stressed servers and ensures high availability and reliability

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web load balancing is a core networking solution used to distribute traffic across multiple servers in a server farm load balancers improve application availability and responsiveness and prevent server overload

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web nov 25 2020 load balancing is a technique that ensures an organization s server does not get overloaded with traffic with load balancing measures in place workloads and traffic requests are distributed across server resources to provide higher resilience and availability

what is server and application load balancing types - Jun 23 2022

web jan 6 2020 there are a number of specific types of load balancing you might need to consider for your network including sql server load balancing for your relational database global server load balancing for troubleshooting across multiple geographic locations and dns server load balancing to ensure domain name functionality

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web load balancing is the practice of distributing computational workloads between two or more computers on the internet load balancing is often employed to divide network traffic among several servers this reduces the strain on each server and makes the servers more efficient speeding up performance and reducing latency

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web server load balancing slb is a technology that distributes high traffic sites among several servers using a network based hardware or software defined appliance and when load balancing across multiple geo locations the intelligent distribution of traffic is referred to as global server load balancing gslb

what is azure load balancer azure load balancer microsoft - Mar 21 2022

web sep 15 2023 load balancing refers to efficiently distributing incoming network traffic across a group of backend servers or resources azure load balancer operates at layer 4 of the open systems interconnection osi model

introduction to spring cloud load balancer baeldung - Apr 21 2022

web jul 25 2023 as microservice architectures become more popular it s becoming more common to run multiple services distributed across different servers in this quick tutorial we ll look at using spring cloud load balancer to create more fault tolerant applications 2 what is load balancing

using nginx as http load balancer - Oct 28 2022

web default load balancing configuration the simplest configuration for load balancing with nginx may look like the following
upstream myapp1 server srv1 example com server srv2 example com server srv3 example com server listen 80 location proxy
pass myapp1

what is load balancing how load balancers work nginx - Oct 08 2023

web load balancing refers to efficiently distributing incoming network traffic across a group of backend servers also known as a server farm or server pool modern high traffic websites must serve hundreds of thousands if not millions of concurrent requests from users or clients and return the correct text images video or application data

server load balancer fundamentals what it means and how it - Apr 02 2023

web server load balancing is a technology that enables your websites and applications to keep up the performance despite a high volume of traffic or sudden spikes it does so by sending or splitting the traffic over to various servers when this process is carried out globally it s called global server load balancing gslb

what are load balancers how to effectively distribute incoming - May 23 2022

web aug 11 2022 load balancers are infrastructure components which distribute incoming network traffic between multiple backend servers they improve capacity and add redundancy by keeping services accessible if one of your servers fails load balancers act as the public gateway to your application

what is load balancing coursera - Sep 26 2022

web jul 25 2023 load balancing is the act of distributing incoming network traffic across backend servers to balance the amount of traffic across a pool of servers it allows applications to perform better by sending requests to multiple servers decreasing the burden of managing and maintaining network sessions

an overview of load balancers and how they work zenlayer - Aug 26 2022

web nov 5 2023 layer 4 load balancers prioritize routing to servers that are the least loaded based on the number of active connections how many requests the server is working on or their response times how busy the server is an example of an algorithm that s often used in layer 4 load balancing is known as round robin round robin works by routing

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