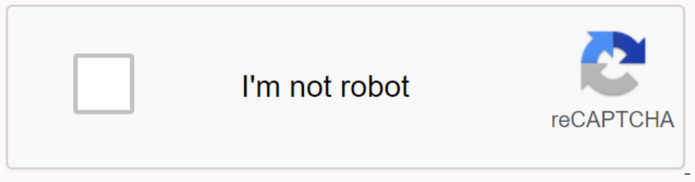

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Iatf ppap manual

The Manufacturing Work Approval Process (PPAP) is a valuable tool for building trust in component suppliers and their production processes. In today's competitive manufacturing environment, which controls costs and maintains a high level of quality, they have become crucial to the company's success. The increase in the cost of equipment, materials and labour combined with the expansion market on the world markets has led to an increase in the transmission parts. Many components are carried abroad. This often results in longer times and larger orders. It has therefore become necessary to provide, for the first time and at any time, quality parts that meet the customer's requirements. Initially, PPAP is utilized by the automotive and aviation industries. PPAP now has more industries to improve communication and provide quality products. In the automotive industry, the final source for information on PPAP is a manual published by the Automotive Action Group (AIAG). The PPAP shall define the approval procedure for new or revised parts or parts produced from new or substantially audited production methods. The PPAP procedure consists of 18 elements that may be necessary to approve parts of the production level. Not all elements are required for each submission. There are five generally accepted levels of submission to PPAP. The PPAP Manual contains detailed information, guidelines and model documents that are useful for meeting the process requirements. The resulting PPAP proposal provides evidence that the supplier complies with or exceeds the customer's requirements and that the process is capable of consistently reproducing quality parts. The PPAP procedure confirms that the supplier understands all the specifications and requirements for customer engineering planning and that the process is able to produce a product that meets these requirements consistently during actual production carried out at that production stage. PPAP and other quality tools continue to be implemented in several industries; it is therefore important to gain an understanding of the requirements of PPAP to remain competitive as a supplier of parts. Ppap is required for any new submission of the work and for the approval of any modification of an existing work or process. Customer may request PPAP at any time during the life of the product. This requires the supplier to maintain a quality system that develops and documents all requests for PPAP submission at any time. The procedure for completing the submission of PPAP is quite complex. This detailed process is a collection of key elements that need to be completed to verify that the manufacturing process will create a quality product. Not all elements are always required for the submission of PPAP. Specific PPAP requirements are usually negotiated during the citation process. PPAP Submission rates The submission requirements for PPAP are usually divided into five classifications or levels as follows: Level 1 – Submission Order (PSW) submitted only to customer Level 2 – PSW with product samples and restricted supporting data Level 3 – PSW with product samples and complete supporting data Level 4 – PSW and other requirements as defined in Customer Level 5 – PSW with product samples and complete supporting data available to review at the supplier's manufacturing location Elements of PPAP is the list of all 18 elements and accompanied by a description brief : Project documentation The project documentation contains a copy of the customer and the supplier's drawing. The documentation must also contain a copy of the purchase order. In some cases, the supplier must provide documentation on the material composition. The purchase order is used to confirm the order of the correct work and to be at the correct audit level. The design engineer is responsible for verifying that the drawings match and that all critical or key characteristics have been identified. Information on the composition of the material is necessary to provide evidence that the material used manufactures parts, meets the specific requirements of the buyer. Engineering change documentation If PPAP is required as a result of a request for a modification of a part or product, the documentation requesting and approving the change must be included in the PPAP. This documentation usually consists of a copy of the Engineering Change Notice (ECN) to be approved by the customer engineering department. If necessary as part of the PPAP, the supplier must provide evidence of approval by the customer engineering department. If necessary, the customer orders samples before PPAP for on-site testing. The samples must be the purpose of the production and the ship with a waiver in order to be able to carry out the testing. Once the testing has been completed, the test engineers will submit an approval form for inclusion in the PPAP submission. Note: A copy of the Temporary Deviation is usually required to submit parts to the customer before the PPAP approval. The method and analysis of design errors and impact analysis Of Error and Effect Analysis (DFMEA) is a cross-functional activity that examines the risk of design by exploring possible ways of failure and their effects on a product or customer and their likelihood of occurrence. These defects may include: Product failures Reduced performance or product lifetime Safety and regulatory issues DFMEA is a living document that needs to be reviewed and updated throughout the life cycle of the product. Process flow diagram Process flow diagram in a graphical way to describe the entire assembly process of a component or final set. Process flow includes incoming materials, assembly, test, processing and delivery. Fault mode and effects process analysis Method and analysis of effects (PFMEA) scans all steps in the manufacturing process to identify potential process quality risks and then document Controls. PFMEA is also a living document and should be updated even after normal product production. Control plan Control plan is an exit from THE PFMEA. The control plan shall specify all products The specific characteristics and methods of inspection necessary for the delivery of products which continuously meet customer quality requirements. Measurement system analysis studies Dimensional results Dimensional layout of sample parts is necessary to verify the validity of the product that meets the printing specifications. Samples must be selected at random from an important manufacturing process, usually at least 30 pieces. Each dimension in the drawing shall be measured on the final assembly to make sure that it falls within the specification. The results are recorded in the table and included in the PPAP submission. Material/Performance Test Records This item must contain a copy of the design and design verification report (DVP&R). DVP&R is a summary of each validation performed on the work. It must indicate each test carried out, a description of the test carried out and the results of each test. This section may also include copies of all certificates for all materials (steel, plastics, etc.) that are indicated on the prints. The material certificate must show compliance with the specific print call. Initial process studies Initial process studies will be carried out on all production processes and will include statistical process control (SPC) charts on critical product characteristics. These studies show that critical processes are stable, show normal variation and run close to the projected face value. Qualified laboratory documentation The qualified laboratory documentation shall consist of industry certificates for each laboratory involved in the completion of the validation. This could be for the in-house test laboratory or for all services contracted that have been used to validate or test the certification of material. The design approval report The Examination of Appearance (AAI) shall apply only to components which affect appearance only. This report confirms that the customer has reviewed the finished product and meets all the required design specifications. Appearance requirements may include information on colour, textures, etc. Sample production parts Sample production parts are sent to the customer for approval and are usually stored in the customer or supplier's place after the product has been completed. A picture of the production parts is usually included in the PPAP documentation, together with documentation regarding the location where the parts are stored. The main sample of the main sample is the final sample of the product examined and unecanned by the buyer. The main model part is used for the training of operators and serves as a benchmark for comparison with standard production parts if any questions arise about the quality of the work. Check gadgets is a detailed list of the control devices used by the production. It shall include all tools used to inspect, test or measure parts during the assembly process. The list should describe the tool and have a calibration schedule for the tool. Control devices may include control attachments, contours, variables and attributes, models or templates. MSA may be required for all verification aids based on customer requests. Customer requirements This element of the submission package is where all specific customer requests are contained. For bulk materials, customer requirements shall be recorded in the Bulk Requirements checklist. Part of the Submit Task Work Submission Order Form (PSW) is a summary of the full submission of the PPAP. PsW is required for each work number, unless the customer imposes otherwise. PsW includes: reason for submission (design change, annual re-validation, etc.) Level of documents submitted to the customer Statement of partial compliance with customer requirements Section containing all necessary explanations or comments Signature of the authorized supplier person together with the contact information Area for the customer indicating the use of ppap procedure PPAP is a detailed and long process. The PPAP package includes documentation of various multiple cross-functional tools and documents that the supplier can meet all customer requirements. PPAP provides customers with relevant information to confirm that all areas of the project and manufacturing processes have been thoroughly inspected to ensure that only high-quality products are allowed to end customers. PPAP Submission Levels PPAP Submission Levels Quality-One provides quality and reliability support for product and process development through advice, training and project support. Quality-One provides knowledge, guidance and guidance in quality and reliability activities tailored to your unique desires, needs and desires. Allow us to help you discover the value of PPAP advice, PPAP training or PPAP project support. Support.