Operational excellence

PPAP — Part Approval

One day to prepare a part approval file that is accepted at the first submission. Participants go through the elements of the PPAP file, the submission levels and the submission warrant, identify the evidence expected for each element and the mistakes that get a file rejected. The workshop checks a real file from your site, or one in preparation, and lists what is missing before it goes to the customer.

Duration : 1 day

Objectives

1. Explain the role of PPAP at the end of product quality planning and the situations that require a new submission
2. Identify the elements of the file and the evidence expected for each
3. Choose the requested submission level and apply the customer's specific requirements
4. Prepare the submission warrant and check consistency between drawing, FMEA, control plan and results
5. Assess an existing file and correct its gaps before sending

Programme

Day 1 — morning

• Why seek approval: proving that the series process produces conforming parts at the planned rate

• When to submit: new part, product or process change, change of site or supplier, restart after a stoppage

• The elements of the file: design records, changes, FMEA, flow, control plan, measurement studies, dimensional results, tests, capability, samples

• Submission levels and customers' specific requirements

Day 1 — afternoon (workshop)

• Submission warrant: content, signature, declaration of conformity

• Consistency of the file: one characteristic followed from the FMEA to the control plan and the results

• Frequent mistakes: capability calculated on too few parts, missing measurement study, inconsistent change levels

• Workshop: review of a PPAP file from your site and list of additions to produce

• Knowledge test on the elements and submission levels

Teaching methods

• Review of a real file, written by your team or received from one of your suppliers

• File element checklist, handed out and used in the session

• Consistency exercise: following a special characteristic through the whole file

• Trainers who are IATF 16949:2016 auditors, familiar with the files automotive customers expect

• Discussion of your customers' specific requirements

Assessment and documents

Knowledge test and end-of-course evaluation at D+1; the file review in the workshop serves as hands-on practice. Numbered certificate, verifiable online, for each participant; the company receives the training report and the list of additions to make to the file studied.

Bilingual materials for every participant; each classroom course comes with its digital twin on OmniLearn.

Good to know

PPAP concludes a project planned under APQP: see « APQP — Product Quality Planning ». The measurement and capability studies requested in the file are detailed in « Automotive Core Tools: FMEA, MSA, SPC ».

Practical information

Duration	1 day
Audience	Project quality and supplier quality, process engineers, laboratory, purchasing
Prerequisites	Knowing the basics of FMEA and control plans is useful
Group size	Groups of 6 to 12 participants, in-company
Format	In-company, face to face on your site
Language	French, Darija or English; bilingual materials
Funding	OFPPT special training contracts (TFP), GIAC, Maroc PME: we prepare the applications with you, at no extra cost.
Programme customisation	Programme adapted to your procedures, your equipment and your audience

Frequently asked questions

Who prepares the PPAP file?

The supplier, under the responsibility of project quality or supplier quality, with engineering, production and the laboratory. Buyers and quality staff who receive files from their own suppliers also benefit from the day.

Does PPAP concern only automotive?

It was born in automotive and remains the rule there. Other industrial customers request an approval file inspired by PPAP. The principle is the same: prove that the series process is under control, not just that a few parts are good.

What is the difference with first article inspection?

First article inspection verifies the dimensional and functional conformity of a few samples. PPAP goes further: it also proves that the process is under control, with the FMEA, the control plan, and the measurement and capability studies.

Can we work on our own files?

Yes, we recommend it. A file in preparation, or one recently rejected by a customer, is the best material for the workshop. The course takes place at your premises, with your documents.