

HOW TO ENSURE QUALITY THROUGHOUT THE ENTIRE SUPPLY CHAIN

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How to ensure Quality



START

- Lead by example, quality starts by me, myself and I
- Make it simple, keep control of the chain

THROUGHOUT THE ENTIRE SUPPLY CHAIN

- Concept: improve or innovate
- Product Development: preferred components/architectures and design poka-yokes
- Process Development: modules off the shelf and work standards
- Suppliers and Sub-Suppliers: less is better, connect to Development
- Manufacturing launch and production: FMEA, 8D, Lessons Learned, Layered Audits
- Change Management: carryovers or carry problems
- Customer Relationship: supporting visits, reps and goals

GOALS

- Quality is a company-wide mindset
- Just aim at ZERO defect!

Start



Lead by example, quality starts by me, myself and I



Start



Make it simple, keep control of the chain

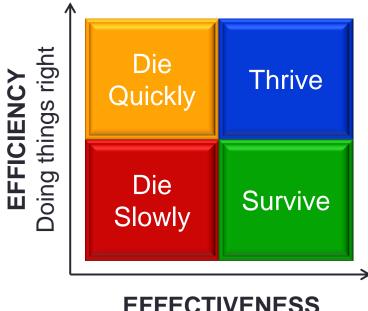


Start

Efficient or Effective?







EFFECTIVENESSDoing the right things

Concept





Improving

- FMEA (Failure Modes and Effect Analysis)
- DRBFM (Design Review Based on Failure Modes)
- DRBTR (Design Review Based on Test Results)



Innovating

- Gradual approach
- Break-through approach
- Beware of the Total Cost of Ownership

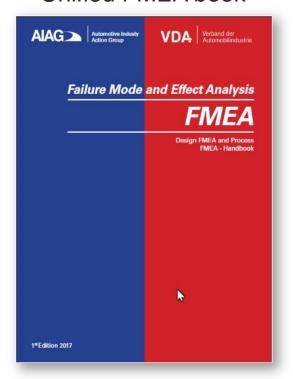
Throughout Concept







Unified FMEA book



Product Development



Design Poka-Yokes



- Are better than process poka-yokes
- A detector is not a poka-yoke!

Preferred components/architectures



- Reduce diversity (and risk)
- Reduce complexity (and risk)

AUTOMOTIVE COMPONENTS AND SUPPLIERS

Process Development



Modules off the shelf

- E.g.: Screw driver station
- E.g.: Ultrasonic welding station
- E.g.: "Autonomation" vs Automation...

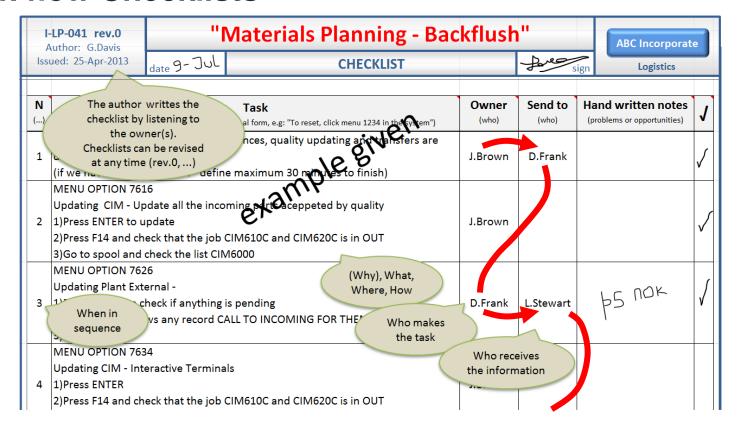


Work standards

- Setup and work instructions
- Troubleshooting and escalation
- Workflow checklists



Work-flow Checklists

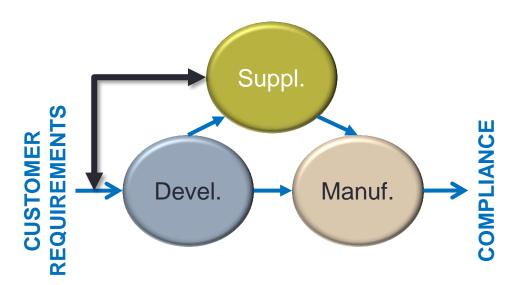


AUTOMOTIVE COMPONENTS AND SUPPLIERS

Suppliers and Sub-Suppliers

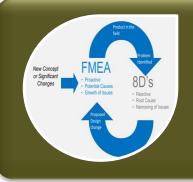
Less and better 500 suppliers 2000 suppliers

Connect to development





Manufacturing launch and production



FMEA, 8D

- Coach and Evaluate DFMEA & PFMEA
- Control accuracy of the APQP
- Coach and Evaluate 8D



Lessons Learnt, Layered Audits

- Make sure the Lessons Learned are created
- Nominate masters to select valid proposals (DB)
- Make sure it is converted into work Standards

Change Management



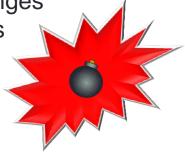
Carryovers?

- Documented
- Stabilized



Or Carry Problems?

- Parts not matching the drawings
- Tools not in proper condition
- Undocumented changes
- Unauthorized changes
- Missing validations
- Fake validations
- ...



AUTOMOTIVE COMPONENTS AND SUPPLIERS

Customer Relationship



Supporting visits

- Listen to the Voice of the Customer
- Deploy in the organization
- Take it seriously



Reps and goals

- Reps are the company's front end
- Trigger immediate reaction to problems
- Inspire trust on preventing and solving issues

Goal



Quality is a company-wide mindset

PROCESS and PEOPLE

Goal









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Just Google this title:

Good Weather at Work, stop struggling

How to ensure Quality

THROUGHOUT THE ENTIRE SUPPLY CHAIN



Appreciate your time

...Questions & Answers...



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