

AL Safety Design

Process FMEA—Manufacturing Risks

AL Safety Design Ltd

is an independent consulting firm, which was founded and started its operation in 1991.

The services include:

- Risk Analysis
- Reliability Engineering
- Product Assurance and
- Conformance Engineering

Our main office is in Helsinki (Espoo), Finland. The company is privately owned by its employees.

Our international customers include major companies in energy technology, chemical industry, aerospace and electro-technical industry.

The assignments are carried out according to the latest Reliability, Safety and Quality standards.

Reliability, Safety and Product Assurance Services

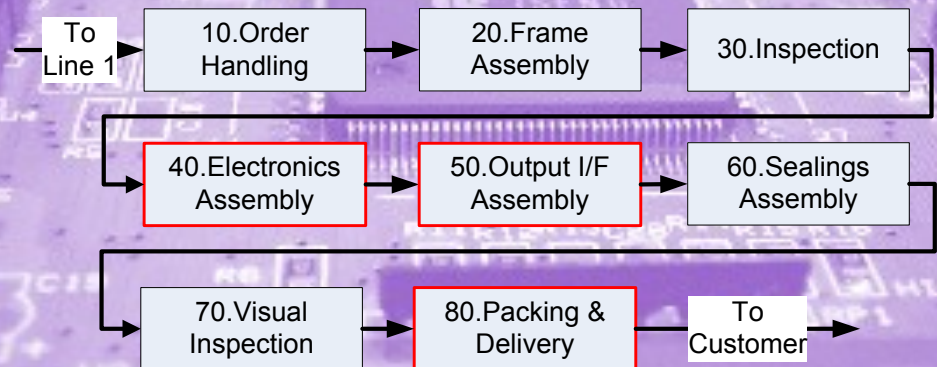
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Manufacturing Process Risks may have a profound effect on customer satisfaction and warranty costs.

Typically the so called 'infant mortality' failures are causing investigation and replacement costs, customer downtime and customer dissatisfaction. For you as a manufacturer it means rework, increased warranty costs and even customer anti-referrals.

Failures, which occur during the product warranty period, 90% of them are caused by errors and failures in the manufacturing process.

As an industry standard, we recommend that you perform a Process FMEA (Failure Modes and Effect Analysis, P-FMEA) on your manufacturing and assembly processes, including your most important subcontractors. AL Safety Design offers the following services helping you to complete the P-FMEA:

- Identify the critical parts of your process for the P-FMEA
- Moderate the P-FMEA sessions in an effective manner
- Evaluate errors and failures and their consequences
- Record and report the identified risks and improvement actions

Options: The analysis can be further completed with the **Design FMEA** method for product failure modes.

Training: Company specific training courses are also available, based on many years experience of in various industries. See: www.reliabilityacademy.fi.

