

# AL Safety Design

## Manufacturing Risks - Process FMEA

### 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.

*We enable our customers to develop superb technology products*

**AL Safety Design Ltd**

**Address:**

**POB 75,**

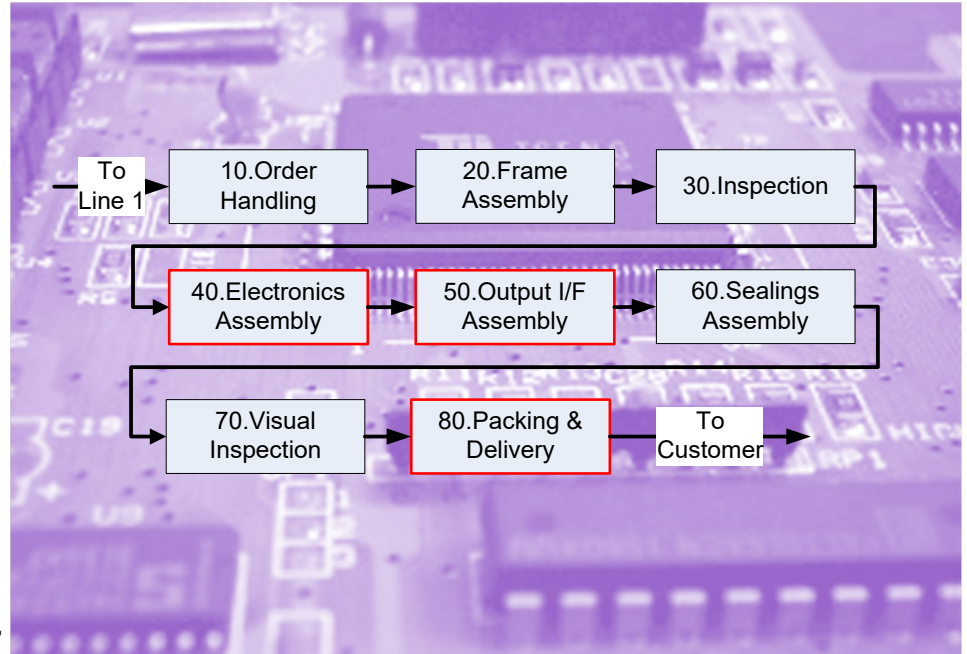
**FI-02701 KAUNIAINEN**

**Finland**

**tel : +358-400-800 022**

**Email: info @ alsafety.com**

**WWW.ALSAFETY.COM**



### Manufacturing Process related risks are a major source of customer satisfaction and warranty costs.

At least 80% of the so called '*Infant mortality*' failures, i.e. failures during warranty period are caused by errors and failures in the manufacturing and assembly phase.

For the manufacturer it means rework, increased warranty costs and even customer anti-referrals. For customers '*infant mortality*' failures are causing downtime and dissatisfaction, including investigation and replacement costs.

We will help you analyze your manufacturing and assembly processes with the **Process FMEA** (Process Failure Modes and Effect Analysis, P-FMEA) method:

- Identification of the critical phases of your process
- Moderation and recording the P-FMEA sessions in an effective manner
- Evaluating errors and failures and associated risks together with designers
- Suggestion of the improvement actions to remove or reduce risks

P-FMEA can be completed by performing a **Design FMEA** (D-FMEA) for the actual end product as recommended by QS-9000 standard.

**FMEA training courses:** Company specific training courses on FMEA methods and reliability engineering are available, based on many years experience of in various industries.

Training, see: [www.reliabilityacademy.fi](http://www.reliabilityacademy.fi) .

Contact: [info@alsafety.com](mailto:info@alsafety.com)

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