

AL Safety Design

RAM Analysis

AL Safety Design Ltd

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

The services include:

- Reliability,
- Safety,
- 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, Quality and Environmental standards.

We enable our customers to develop superb technology products

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RAM analysis supports design of technical systems and products, predicting *production losses and maintenance costs for different system alternatives*. Analyzing failures and repairs the system bottlenecks are identified and the use of maintenance resources optimized:

- **RAM Analysis - RAM Models**
 - “bottleneck” analysis using RAM model and **RCM***
- **Predicted Cost of Unreliability**
 - evaluation of repair, service and shutdown costs, **LCC***
- **Critical Spare Parts and Maintenance Tasks**
 - Risk based Preventive maintenance planning and spares acquisition
- **Requirements for Suppliers**
 - uptime guarantees, agreements, RAM specifications
- **RAM follow-up and Data surveys**
 - Failure databases, reporting systems. RAM field data surveys
- **Training Courses:** see www.reliabilityacademy.fi

Our customers: ABB, Neste Oil, JP International, Metso, Sandvik, STX Europe, Boise Cascade (USA), Fortum, Borealis, Foster Wheeler Energy, Yara etc.

* RAM = Reliability, Availability, Maintainability. LCC = Life Cycle Costs.
RCM = Reliability Centered Maintenance

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