



# A Cookie Cutter Introduction to FMEA and FMECA: A Practical Example from Theory to Implementation

By Knut Georg Seet-Larsson

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## **A Cookie Cutter Introduction to FMEA and FMECA: A Practical Example from Theory to Implementation** By Knut Georg Seet-Larsson

In a world that is increasingly dependent on technology, safety analysis methods can prevent serious incidents and loss of life. Failures caused by systems, machines or human beings resulting in grave environmental and human consequences, have increased the consciousness about the importance of these methods. This book provides a simple introduction to the methodology of performing a Failure Modes and Effects Analysis (FMEA), with elementary steps for executing a Failure Modes, Effects and Criticality Analysis (FMECA). Furthermore, the work is centred around the implementation of a concrete example, which was commissioned by Park Air Systems AS. The subjects of analysis are two integral parts of their advanced air traffic control communication system. The objectives are to reveal possible failure modes and design weaknesses, besides providing more complete safety data for internal evaluation and to customers. Engineers and developers of systems that need safety considerations, students and lecturers will find this pragmatic introduction to FMECA useful. Methodical how-to lists make this book a good guide for those who need a quick reference or overview of this complicated field.

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#### **About the Author**

born 6 Nov 1974, is a Norwegian engineer with a M.Sc. in Electronics Engineering from Sweden's Mälardalens University. He has worked with safety-related electronics design and subsea control equipment for companies like ABB and FMC Kongsberg Subsea in the oil & gas industry since 1999. He lives in Oslo and enjoys rollerblading and scuba-diving.

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