



# Designing Food Safety and Equipment Reliability Through Maintenance Engineering

By Sauro Riccetti

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Existing maintenance engineering techniques pursue equipment reliability with a focus on minimal costs, but in the food industry, food safety is the most critical issue. This book identifies how to ensure food product safety through maintenance engineering in a way that produces added value and generates real profits for your organization.

Integrating food safety techniques with reliability and maintenance engineering techniques, **Designing Food Safety and Equipment Reliability Through Maintenance Engineering** details a maintenance design process that captures all conceivable critical factors in food manufacturing lines. While maintenance engineering normally starts with equipment reliability, this book starts with product safety to identify equipment criticalities and maintenance solutions.

The text examines the problems currently facing the food industry and introduces powerful solutions to help food producers and consultants manage both food safety and manufacturing effectiveness. It presents an innovative tool for weighing food, human, and equipment criticalities and also describes how to maximize maintenance design outcome through the empowerment of equipment operators and their close cooperation with maintenance and quality specialists.

Detailing how to design reliable task lists, the book includes case studies that illustrate the problems that low equipment reliability can create for your customers and your company's image. It outlines key performance indicators that can help producers and suppliers easily identify quality, availability, and productivity gaps. It also highlights critical factors that can help you avoid process bottlenecks.

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### Editorial Review

#### About the Author

**Dr. Sauro Riccetti** obtained a graduate diploma in electrical and electronic engineering and membership to the Society of Engineers (London), then a postgraduate diploma and a master of science (MSc) degree in manufacturing engineering at the Open University (UK). He continued his research studies on maintenance and process engineering applied to the food industry, receiving his doctor of philosophy (PhD) degree in manufacturing engineering from the School of Engineering and Design at Brunel University (London). He is a member of the Institution of Engineering and Technology (UK) and a chartered engineer of the Engineering Council (UK).

Dr. Riccetti has worked in the food industry for more than 30 years. He carried out his research activities on maintenance and process engineering applied to the food industry and is actively involved in developing new products and services to improve food safety and equipment reliability in the food industry's packaging lines.

His experience at Tetra Pak Italy and in holding several different positions including training manager, customer service director, and business development director, in addition to his involvement in improvement projects for the food industry, have enabled him to gain wide experience on maintenance and process engineering applied to the food industry.

Dr. Riccetti lives in Modena, Italy, and can be contacted at [sauro.riccetti@gmail.com](mailto:sauro.riccetti@gmail.com).

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