

# "Racetrack to Operational Excellence"

Lean Manufacturing/Continuous Improvement

Racing Toolbox

This course will provide the students with an arsenal of tools to use for continuous improvement in any industry: Data Collection Sheets, Flow Charts, Brainstorming, Affinity Diagrams, Run Charts, etc. The students will work on projects to apply these techniques in a production setting.

Waste Elimination

This course primarily focuses on the technique of "Learning to See" the different types of wastes found in a manufacturing environment. This course provides insights on the common types of wastes found in manufacturing and provides the class participants an opportunity to apply course content to projects in their working environments. Application or simplification techniques, review of push vs. pull production strategies, and one piece flow using standardized data collection systems.

Set-up Time Reduction

This course primarily focuses on the concepts and theories of (SMED) Single Minute Exchange of Dies. Using a hands-on approach students use video tapes of their own production set-ups to apply the concepts of SMED to implement set-up time reduction improvements.

Mistake Proofing/Poke-Yoke

This course addresses practical insights in the concepts of Poke-Yoke (Mistake Proofing) techniques. The course acquaints the participants with sources of faulty products and processes. Defect detection and standardization of operational procedures and sequences is stressed. These techniques can eliminate waste related to quality defects-rework, scrap, and equipment downtime. This approach supports a company's competitiveness and makes production and assembly work easier.

Cycle Time Reduction

This course addresses practical insights on how to reduce the cycle time of a work process. It is built around five key cycle time reduction strategies that key on the importance of identifying and eliminating timeconsuming process waste, providing the right resources at the right place and time, creating continuous work flow and the importance of cross-functional work teams.

The 5s System  
Workplace Organizational Techniques

This course is an overview of a systematic approach to organizational cleanliness, which is the foundational base for quality, safety, productivity and employee involvement in all areas of a company.

Employee Safety & Liability Issues

This unit provides an insightful overview of the growing concern about the increased complexity and magnitude of hazards, accidents and associated costs for manufacturing companies.

Production Based Learning Activities

These units provide participants with the opportunity to apply lean manufacturing techniques in their work areas. A spirit of competition is created among the employees teams through a company awards program.

Racing Teams

*This educational program is a partnership between:*



For more information, contact Kirsten Melby, Director of Lifelong Learning, at (218) 683-8647.