



# Failure Modes & Effects Analysis and Design for Manufacturability & Assembly

Learn two different tools for improving new and existing designs.  
**Bring an FMEA to the workshop to work on with the instructor.**



**About the instructor:**

*George Wilson* is a Lean 6 Sigma Master Black Belt at a large medical device manufacturer. He has led or mentored Lean and 6 Sigma projects in manufacturing, sales, marketing, finance, and design, as well as trained green belts in 6 Sigma topics.

**FMEA:** This technique will enable a cross-functional team to:

- Evaluate a design and determine potential negative effects
- Prioritize the effects by quantifying their magnitude
- Identify and implement actions to address the effects

**DFMA:** This technique will enable a cross-functional team to:

- Evaluate components to ensure they are manufacturable
- Evaluate parts to ensure they are “necessary”
- Evaluate the characteristics of an assembly: part-to-operator interface, part-to-part interface, fastening methodology, non-value steps

**After completing this workshop you will:**

- ◆ Gain an understanding of the different types of FMEA and when they are used
- ◆ Gain an understanding of the various aspects of DFMA and why they are used
- ◆ Experience hands-on learning of both types of FMEA and DFMA
- ◆ Provide paper and electronic forms for performing all class examples – able to be brought back to your company for immediate use

**Who should attend:** Managers, Engineers, and others who are involved in new product development, manufacturing, quality, purchasing, design, materials and supply chain.

**Friday, June 28, 2019 8:00 a.m. - 4:00 p.m.**

**Fee:** **MA members:** \$329 per person **Non-members:** \$449 per person  
*Receive a 10% discount if you register 14 days prior to the event*

**Location:** **Manufacturers Alliance Training Center**  
8421 Wayzata Blvd, Suite 190  
Golden Valley, MN 55426  
(For directions and map go to [www.mfrall.com](http://www.mfrall.com))

**Register:** Registration is required. Reserve on-line at [www.mfrall.com](http://www.mfrall.com), click on **Workshops** by 3:00 pm June 26, 2019. *Your satisfaction is guaranteed.*

**Cancellation Policy:** **No refunds** for cancellations after 3:00 p.m. on June 26, 2019, or for no-shows at workshop. *(Substitutions accepted)*