



Tim McCarthy

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Profession: I help organizations achieve their most important challenges through leading improvements, teaching lean methods, and coaching leaders.

Education

- Shingo Institute Licensed Affiliate Certification. Anticipated 2020
- Improvement Kata & Coaching Kata, TWI Institute, Purdue Polytechnique, Nov 2017
- Lean Bronze Certification; American Society of Quality/Society of Manufacturing Engineers; June 2013
- Lean Six Sigma Master Black Belt Certification: George Group Consultants and Eli Lilly and Co, August 2009
- Lean Six Sigma Black Belt: George Group Consultants and Eli Lilly and Co, 2003
- University of Montana, Missoula, Montana; Master of Science, Chemistry, May 1988
- Augustana College, Rock Island, Illinois; Bachelor of Arts, Chemistry and Geology, May 1983

Professional Experience:

MCI Coaching Solutions

Owner and Lean Six Sigma, Advisor Master Black Belt; Jan 2017 – present

1. Maintain informal and formal coaching relationships with over 30 people and 22 organizations. Utilization of the Improvement and Coaching Kata method to augment existing Lean deployment strategies within their respective companies.
2. Successfully instructed and coach individuals on the American Society of Quality GB and BB certification exams.
3. Lean Six Sigma Instruction: Beginning and advanced Statistical Process Control methods. Basic and Advanced Statistical techniques. Improvement and Coaching Kata. Beginning and Advanced Design of

Experiments. Introduction to Lean History and Methods. Lean Laboratory management and methods. Lean Six Sigma: Yellow Belt, Green Belt, Black Belt, and Master Black Belt, DMAIC & DMEDI.

Clients

Moresteam®, Columbus OH; 2013 - present

1. Design and implementation of SPC and DOE instructional modules for Moresteam Master Black Belt course.
2. Ongoing facilitation of online Lean SixSigma simulation software for Clients: Inbox®, Sherlock Holmes Zombie Hunter®, SigmaBrew DMAIC®, Tollgate Adventure®, St Sigma Teaching Lab®
3. Ongoing facilitation of web-based Statistics and Data Analysis (EngineRoom®) and discrete event simulations (Process Playground®)

IU School of Medicine, Indianapolis IN; June 2017 - present

1. (In Progress) Provide coaching to two school advisory committees.
2. (In Progress) Establishment of research material & equipment management strategy and processes.
3. Development and implementation of scientific information management strategy and processes.
4. Design and implementation of Lean Laboratories program.
5. Implementation of refrigerator challenge to reduce redundant refrigeration footprint and reduce energy utilization.
6. (In Progress) Development of Quality Management system for specific “core” units within the school of medicine.

Indiana Department of Transportation, Indianapolis IN

1. Evaluation of real-time truck weight technology as a means to determine capacity, licensing and overweight truck enforcement on Indiana Highways.
2. Development of improved INDOT user manual for state highway access (driveways).
3. Development of electronic INDOT permit manual and processes.

GFS Chemicals, Columbus OH

1. (In Progress) Evaluation of seven analytical methods to establish plan for determination of measurement uncertainty (a requirement of ISO17025 certification). And the development of a continuous improvement strategy.
2. Statistical evaluation of all products related to Karl Fisher standards. Established continuous improvement plan to establish control and capability.
3. Process evaluation of multiple chemical blending operations to identify and eliminate root causes to process lead time variation and quality defects.

Pintail Solutions (Global Alzheimer's Platform Foundation)

1. Visited nine Alzheimer clinical study sites and observed the clinical staff with patients and caregivers through several days of normal operations.
2. Identified many gaps and wastes inhibiting flow and reducing customer satisfaction.
3. Coached the clinical staff during their improvement journey to significantly improve their clinical and office operations by: increasing the number of patients helped each day, Reducing the time burden on patients and their caregiver, improve their office operations and workspaces.

Lilly Research Laboratories, Eli Lilly and Co; 1986 - 2017

1. Lean Six Sigma, Senior Advisor Master Black Belt: 2009 – 2017.

- Report to the VP of Lean Six Sigma and Strategy.
- A. Areas of engagement and coaching: Discovery Research, Product Research and Development, Clinical Research, Process Research and Development, Dry Products Manufacturing, Parenteral Products Manufacturing, Device Manufacturing, Clinical Trial Material Global Logistics.
- B. Curriculum development: Developed Design for Lean Six Sigma, Improvement and Coaching Kata, and Lean curricula for Lean Six Sigma Black Belt, Green Belt, and Master Black Belts.
- C. Teacher: Taught over 300 Eli Lilly leaders Lean Six Sigma Black Belt, and Green Belt curricula in the US, Canada, Mexico, Puerto Rico, Belgium, Italy, UK, Ireland, Thailand, Japan, and India. Conduct Lean Deep Dive training with manufacturing and lead teams in Indianapolis, IN; Carolina, PR; Branchburg, NJ.
- D. Coach: Coach LSS Black Belts on improving their project outcomes. Coach Lilly executives on Lean Six Sigma methodologies and business systems opportunities and strategy.
- E. Lean Center of Excellence Leader: Lead a cross functional team of Lean Six Sigma Black Belts, Master Black Belts, and business leaders on improving our utilization of Systems and Lean techniques within Lilly. Developed deep level knowledge in Lean and Quality History, Lean Curricula, Lean demonstrations and teaching, Lean applications within manufacturing, and laboratory settings.
- F. Projects:
 - i. Toxicology research flow improvement. Resulted in reduction of primary research lead time from 30 days to less than 10 days.
 - ii. Cialis® Value Stream Carolina, PR. resulted in significant reduction in Lead time and improved quality across the value chain.
 - iii. Improvement and Coaching Kata implementation across Eli Lilly.
 - iv. Continuous Improvement Everyday initiative development and implementation.
 - v. Indiana Science Initiative. Developed a detailed forward and reverse logistics system for new science kits for Indiana schools, K-8.
 - vi. Indiana State Deaf Services. Lead a team from four Indiana State agencies involved with providing services for deaf children and families to dramatically improve data sharing and data analysis while maintaining FERPA and HIIPA integrity.

- vii. World Health Organization. Developed a global value stream assessment of all medications required to treat Multiple Drug Resistant Tuberculosis (MDRTB). The resulting recommendations were used to increase drug availability within 8 countries to >95%.

2. Clinical Trial Material Services: Director, Global CTMS Distribution and Operations; 2005 – 2008

- Lead 20-35 associates, and engineers on three continents.
- A. Global CTMS Distribution Strategy. Responsible for the investigation, development of a strategy for the optimized long-term delivery of Clinical Trial Materials to countries in China, India, and SE Asia, Australia, and Japan. Traveled extensively in the region to determine local business capabilities of warehouse storage and distribution of clinical trial materials. Developed a regional distribution and logistics center partnership with Fischer Scientific in Singapore. Implemented a global information system linking the three major hubs; Singapore, Indiana, Brussels resulting in significant improvements in cycle time and inventory levels of CT materials.
- B. CTMS Prioritization and Cycle time improvements; Lead my team of CT material specialists, logistics and associates to investigate and discover solutions to reduce the cycle time for ready for use of cold chain clinical trial materials for an average of over 5 days to less than 4 hours.
- C. CTMS Distribution Lean Culture Improvements: Lead my team of CT material specialists, logistics and associates to learn and change behaviors leading to dramatically improved quality and delivery of services: Utilizing Leader Standard Work, Visual Controls, Process Focus, Daily Accountability.

3. Lean Six Sigma, Advisor Black Belt: 2003 – 2005

- A. Clinical Trial Material manufacturing improvement. Project resulted in reducing scheduling conformance variability from greater than 90 days to within 5 days.
- B. Early Clinical Trial Material manufacturing to delivery improvement. Project resulted in the identification of the final country labeling as the process constraint. The resulting process changes subordinated activity to the constraint resulting in significant improved on-time delivery and inventory reduction.
- C. Completed Value Stream Assessment of clinical development from First Efficacy Dose through First Registration Dose. Lead a team to complete a current state and future state value stream map of the clinical development organization. The effort resulted in the Lilly's first value stream view of the phase II clinical development process and a transformation plan for the clinical development organization.

4. Chemistry, Manufacturing, and Control (CM&C); Senior Manager Project Management; 1999 -2003

- A. Cymbalta (Duloxetine); 2010 sales, \$3.4 Billion; Project manager for the Duloxetine product team. Utilizing daily standard work, and visual control boards, I was able to manage the daily issues as well as improve quality of the plan deliverables. Led the team to a NDA submission in October 2001, 9 months earlier than first planned.
- B. Symbyax (Olanzapine, Fluoxetine Combination); 2010 sales, \$50 Million. Project manager for the Symbyax product team. Led the team to an NDA submission in August 2002.

- C. Phase 3 Development Compounds; lead large cross functional development teams on many molecules resulting in robust CM&C and clinical plans. 100% on time delivery and milestone achievement.

5. Technical Services, Organic Chemist, Team Leader; 1995-1999

- Managed 3-6 Associate Chemists.
 - Routinely called upon to provide process trouble shooting at Eli Lilly chemical process facilities in Kinsale, Ireland and Mayaguez, Puerto Rico.
- A. Micotile (Tilimicosin); Led Process Improvement team. Completed multiple batch processing campaigns to meet annual demands. Implemented new state of the art filtration methodology resulting in dramatic improvements in operator exposure.
- B. Gemzar (Gemcitabine); 2010 sales, \$1.1 Billion; Led Process Improvement team. Completed multiple batch processing campaigns. Completed scaleup to 500 gallons, and 1000-gallon equipment of the final bulk Active Pharmaceutical Ingredient. Lead all 6 intermediate process steps at various times. I was the lead Technical Service Chemist responsible for validation in new \$300MM, level -III containment facility.
- C. Evista (Raloxefine); 2010 sales, \$1.0 Billion; Led the scale up of new chemistry to production of two key intermediates.

6. Chemical Process Development, Organic Chemist; 1986 – 1995

- A. Development Projects; Complete multiple chemical improvements and new chemistry for products; Ceclor, Raloxefine, Gemcitabine,
- B. Received Eli Lilly Presidents Award, 1995 for development work on new chemistry associated with the final step of Evista (Raloxefine). This improvement significantly improved yield, throughput, and waste reduction. This chemistry was then used in the scale-up, validation, submission, and first launch.