

UW–Madison
Interdisciplinary Professional Programs
**Technical Leadership
Courses 2026 Catalog**



Interdisciplinary
Professional Programs
COLLEGE OF ENGINEERING
UNIVERSITY OF WISCONSIN-MADISON

go.wisc.edu/TLC2026Spring



LEAD WITH CONFIDENCE

Technical Leadership Certificate

course topics were developed with your success in mind, by consulting with hundreds of engineers from leading companies. The courses and topics—taught by UW faculty and industry experts—are constantly updated and improved to meet the needs of our global partners.

LEARN FROM THE BEST

COURSES DESIGNED TO:



Focus on applied learning



Strengthen technical teams



Enhance project management skills



Gain actionable knowledge you can apply to your career

Courses may be taken individually or as a path to earning your Technical Leadership Certificate

Immediate Impact

**Make a difference in your work right away.
What our participants had to say:**

"Useful and effective information, I have already successfully used the 3F model to plan a corrective action meeting. It worked brilliantly."

– Robert Clark, Engineering Manager, Particle Measuring Systems
(past attendee of Critical Conversations: Results-based Communication)

"It connected a wide range of important topics for managers and leaders alike. I feel like there aren't as many courses for managers as there are leaders, and this was fantastic at both. Trevor continues to be a wonderful instructor. I plan to recommend this to all staff I work with who are considering management or are new managers."

– Gregory Karlovits, Statistical Hydrologist, US Army Corps of Engineers
(past attendee of Effectively Managing Technical Teams)

"The instructor was excellent. The course was a wonderful blend of technical introduction/overview, with guidance on where interested parties could delve deeper, covering a broad range of analytics - including how to use the tools to drive decisions. Also, the organization/timing were superb. Best online course I've attended."

– David Winkler, Associate Project Engineer, Drs Naval Power Systems
(past attendee of Data Analytics for Technical Leaders)

"The course hit on a concept and then went into practice, it then [built] each practice on the previous one. You are left with great examples and an actual proposal to take with you."

– Jennie Guggenheimer, Senior Business Analyst, Delta Dental of Wisconsin
(past attendee of Leading Digital Change: Transforming People, Process, and Purpose)

"There is a good balance of classroom instruction and hands-on group activities to drive a strong understanding of the tools and their implementation."

– Ben Mercer, Martin Engineering
(past attendee of Root Cause Analysis Tools for Technical Applications)

Real World Knowledge

We are proud to partner with our Technical Leadership instructors with decades of hands-on experience

Instructor Highlight



Raj Kamal

Instructor: Financial Analysis for Technical Professionals, Managers, and Planners

Raj Kamal is a lecturer in the College of Engineering at UW-Madison, and the owner of Credens LLC, a management consulting firm based in the Madison, Wisconsin area. With over 25 years of experience, he brings extensive expertise in program management, quantitative modeling, and statistical analysis. In the Master of Engineering MEM program, Raj teaches EPD 611 – Engineering Economics and Management. Outside InterPro, he also teaches operations management, statistical strategy, information technology, and quality in the MBA program at Edgewood College, and has previously taught at Purdue University's Krannert School of Business.



Shawn Belling, PhD,
PMI-ACP, PMP, CSP, SS
Project Advisor,
UW-InterPro and FarWell



John Koga, AIA
Owner, Lean
Construction Value
Specialties LLC



Sara Kraemer, PhD
Founder, Blueprint
for Engineering



Trevor Manning
Managing Director,
Trevor Manning
Consultancy Pty Ltd



Anthony Orzechowski
Director of R&D
Data Analytics,
Abbott Diagnostics



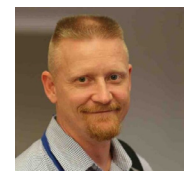
Susan Ottmann, MS, BS
Director of Professional
Programs



Heather Smith, MS, PMP
Director of Online
Graduate Programs



Rob Stone, MEd, PMP
Executive Director,
The Larsen Group



George Williams
CEO ReliabilityX

Learn more and enroll at
go.wisc.edu/TLC2026Spring

Courses

Complete five courses to earn your Technical Leadership Certificate.

Financial Analysis for Technical Professionals, Managers, and Planners

January 16 – February 27, 2026 | #D964

Online

Fee: \$1,795 | CEUs: 1.4, PDH: 14

Technical professionals learn financial analysis, estimate initial and lifetime costs, and make capital investment decisions.

Critical Conversations: Results-based Communication

January 20 – 23, 2026 | #D773

Online

September 16 – 17, 2026 | #D776

Madison, WI or Live Online

Fee: \$1,695 | CEUs: 1.4, PDH: 14

This course gives engineers and technical professionals a practical framework for having clear, honest, and productive conversations—especially when stakes are high or conflict is likely. Learn how to plan, deliver, and recover conversations using a proven model that supports better outcomes without damaging relationships.

Leadership Beyond Your Team: Managing Up and Across

January 26 – 29, 2026 | #D772

Online

September 14 – 15, 2026 | #D775

Madison, WI or Live Online

Fee: \$1,695 | CEUs: 1.4, PDH: 14

Master the art of influencing those at your level or higher to become a more effective leader. Learn how to make yourself heard and change others' behavior to ensure reliable partnerships in your programs and projects.

Effectively Managing Technical Teams

February 2 – 6, 2026 | #D771

Online

September 9 – 11, 2026 | #D774

Madison, WI or Live Online

Fee: \$1,995 | CEUs: 1.7, PDH: 17

Technical teams present many challenges for engineering managers. Team leaders must often give up some of their technical authority to focus on strategic management, operational planning and human resource management. They also need solid communications skills and know how to represent the team across the organization and at a high level. In this hands-on course, you will learn strategic and operational planning tools to set goals, establish objectives and build defensible budgets from an instructor who has actually "walked the talk" of this course with his own experiences.

Data Analytics for Technical Leaders

February 23 – 26, 2026 | #D814

Online

Fee: \$1,495 | CEUs: 1.6, PDH: 16

Unlock the power of data to lead with confidence—this course equips technical leaders with practical analytics tools to make smarter, faster decisions. Through hands-on exercises and real-world examples, you'll learn how to extract insights and effective leadership decisions using descriptive, causal, predictive, and prescriptive analytics.

Principles of Engineering Project Management

April 6 – 9, 2026 | #D863

Online

Fee: \$1,795 | CEUs: 2.1, PDH: 21

Whether you are new to project management or have many years of experience, there's always room to improve. Learn how to effectively initiate, plan, execute, control and close out projects.



Learn more and enroll at
go.wisc.edu/TLC2026Spring

Mastering the Transition from Technical Expert to Leader

April 14 – 15, 2026 | #D813

Madison, WI

Fee: \$1,495 | CEUs: 1.4, PDH: 14

Make the leap from technical expert to confident leader by mastering the skills of communication, delegation, and team motivation. This course equips engineers and technical professionals with the tools to lead effectively, manage meetings, and inspire performance.

Leading Digital Change: Transforming People, Process, and Purpose

May 6 – 8, 2026

Online

Fee: \$1,995 | CEUs: 2.1, PDH: 21

This course equips leaders and teams with the practical tools to lead successful strategic, operational, and cultural transformation. Through hands-on case studies, strategic planning exercises, and personalized feedback, you will learn to build your capacity for navigating complex change. Designed for both individuals and small teams, this course provides ample time to apply concepts, analyze real-world examples, and develop concrete action plans. You will leave with effective frameworks for strategy and decision-making, meaningful professional connections, and a clear roadmap for your organization's ongoing success in the digital age.

Root Cause Analysis Tools for Technical Applications

May 13 – 14, 2026 | #D908

Madison, WI or Live Online

Fee: \$1,495 | CEUs: 1.4, PDH: 14

Master the tools and techniques of Root Cause Analysis (RCA) to eliminate recurring problems and drive sustainable improvements in your technical operations. This course equips engineers and technical professionals with practical, proven methods to identify, analyze, and resolve the root causes of complex issues.

Decisionmaking as a Competitive Advantage: Choosing by Advantages (CBA)

June 16 – 17, 2026 | #E020

Madison, WI

Fee: \$1,495 | CEUs: 1.4, LU: 14, PDH: 14
interpro.wisc.edu/RA00027

This course provides a comprehensive exploration of the Choosing by Advantages (CBA) sound decisionmaking* process, essential for professionals in capital-intensive industries. Participants will delve into foundational principles, models, and methods of CBA, learning to effectively describe differences, decide importance, and recognize unsound methods.

*Please note that the term "decisionmaking" is used intentionally in accordance with the formal CBA methodology, which employs this non-traditional spelling.

Tools and Tactics to Recover Troubled Projects

June 16 – 17, 2026 | #E016

Madison, WI or Live Online

Fee: \$1,495 | CEUs: 1.4, PDH: 14

Complex development projects often veer off schedule or budget, threatening product timelines and dependent initiatives. This course gives engineers and technical leaders a structured approach to identify, assess, and recover failing projects at any stage. You'll walk away with actionable strategies to regain control and deliver results under pressure.

Agile for Technical Teams: From Principles to Practice

November 10 – 11, 2026 | #D600

Madison, WI

Fee: \$1,495 | CEUs: 1.4, PDH: 14

Master Agile principles and practices through immersive, hands-on simulations tailored for technical teams. This course bridges theory and execution, empowering participants to lead Agile projects with confidence and clarity.