UW–Madison

Interdisciplinary Professional Programs

2025 Technical Leadership Certificate Catalog

BORN TO LEAD

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

LEAD WITH CONFIDENCE

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:

"I really liked the tools and resources that were taught in this class, that I can take back to my management team for implementation. The presenter did a good job of keeping the class moving and providing a safe environment for discussion. No one looked down on someone's view points or belittled anyone."
– Shelli Botts, Maintenance Planner/Scheduler at Little Blue Valley Sewer District (past attendee of Principles of Engineering Project Management)

"Very applicable. Very engaging. Good examples to start applying the principles right away."
– Matthew Medcalf, Product Design Engineer at Bradley Company (past attendee of Critical Conversations: Results-based Communication)

"I enjoyed the flow of the course. The content was structured incredibly well and presented in a very relevant way. In my experience with any course content, it always hits home the most when it is paired with real world experience. Trevor did this very well!"
– Eric Trzebiatowski, Director of Engineering at Pointe Precision, Inc. (past attendee of Effectively Managing Technical Teams)

"This addressed specific concerns I've had in my job and more importantly things I didn't consider. Trevor's experience is incredibly valuable for seeing those things."
– Gregory Karlovits, Civil Engineer/Statistical Hydrologist at US Army Corps of Engineers (past attendee of Leadership Beyond Your Team: Managing Up and Across)

"Great teaching with just enough break out activities to keep it entertaining. A lot of knowledge learned in only two days."
– Jim Konrardy, Assistant Manager Buildings and Grounds at Dubuque Community School District (past attendee of Mastering the Transition from Technical Expert to Leader)

"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 discussions. Also, the organization/timing were superb. Best online course I've attended."
– David Winkler, Associate Project Engineer at DRS Naval Power Systems (past attendee of Data Analytics for Technical Leaders)

Real World Knowledge

We are proud to partner with our TLC instructors with decades of hands-on experience. Some of them include:

Sara Kraemer, PhD — Consultant

Heather Smith — Director of Graduate Programs

Trevor Manning — Consultant

Susan Ottmann — Director of Professional Programs

Anthony Orzechowski — Director of R&D Data Analytics

Rob Stone, ME, PMP — Project Manager

Instructor Highlight
Shawn Belling

Shawn Belling is a technology executive, speaker, instructor, and author based in Madison, WI. Shawn has held executive and management roles in health tech, higher education, software, consulting, bio-pharma, manufacturing, and regulatory compliance sectors.

Shawn is a Lecturer in Interdisciplinary Professional Programs (InterPro) within the College of Engineering at UW–Madison. Shawn is also the Director of IT for Thermo Fisher Scientific's GMP Labs within the Clinical Research Group, responsible for laboratories in Middleton, WI and Athlone, Ireland. Areas of professional and academic practice include project and program management, agile practices, organizational change management, software and IT strategy and delivery, new product development and remote work.

In addition to over 30 years of technology and project leadership experience, Shawn teaches, speaks and consults for businesses, universities and professional organizations on various leadership and management topics and practices. Shawn released his books Succeeding with Agile Hybrids in November of 2020 and Remotely Possible in June of 2021.

Shawn is certified by PMI as a Project Management Professional and Agile Certified Practitioner and is also a Certified Scrum Professional and Registered Scrum at Scale Practitioner.

Shawn earned his Bachelor of Science from the University of Wisconsin – Whitewater and Master of Science in Project Management from UW – Platteville. Shawn earned a certificate in Organizational Change Leadership from UW-Platteville and Doctor of Education in Leadership at the University of the Cumberlands.

Learn more and enroll at
go.wisc.edu/TLC-2025

Courses

Complete five of the participating courses to earn your certificate.

Data Analytics for Technical Leaders
February 17 – 20, 2025

Critical Conversations: Results-Based Communication
February 17 – 20, 2025
October 1 – 2, 2025

Effectively Managing Technical Teams
February 24 – 28, 2025
October 6 – 8, 2025

Leadership Beyond Your Team: Managing Up and Across
March 3 – 6, 2025
September 29 – 30, 2025

Organizational Agility in Digital Transformation: Designing and Leading Change
March 18 – 20, 2025

Principles of Engineering Project Management
April 1 – 4, 2025
September 9 – 11, 2025

Foundations of Artificial Intelligence and Machine Learning
April 1 – 3, 2025

Decisionmaking as a Competitive Advantage: Choosing by Advantages (CBA)
April 1 – 2, 2025

Mastering the Transition from Technical Expert to Leader
April 8 – 9, 2025
November 17-20, 2025

Agile for Technical Teams: From Principles to Practice
April 22 – 23, 2025
November 11 – 12, 2025

Tools and Tactics to Recover Troubled Projects
June 10 – 11, 2025

Financial Analysis for Technical Professionals, Managers, and Planners
July 11 – August 22, 2025

Global Leadership for Technical Teams
August 19 – 20, 2025

Root Cause Analysis for Technical Applications
September 17 – 18, 2025

Coaching and Mentoring for Technical Leaders
November 4 – 5, 2025

Applied Leadership for Performance Culture
Available as a custom course