# Engineering Leadership for Emerging Technical Professionals

8 – 12 November 2027
Barcelona (Spain)



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## Why This Course

Engineering leadership begins long before someone holds a senior title. Early-career engineers often find themselves leading tasks, influencing decisions, coordinating with teams, solving complex problems, and communicating technical ideas to non-technical stakeholders. To grow into effective leaders, they need more than technical expertise. They need confidence, communication skills, emotional intelligence, strategic thinking, and the ability to guide people through challenges.

Technical environments come with their own leadership demands. Engineers must balance precision with creativity, manage risk, work across disciplines, support innovation, and make decisions that affect safety, quality, cost, performance, and long-term value. Emerging engineering leaders who develop these capabilities early are better prepared to lead projects, motivate teams, and contribute to organizational success.

This intensive 1-week course equips early-career engineers with essential leadership skills tailored to technical environments. Through interactive sessions, practical exercises, engineering-focused case studies, and personal action planning, participants will build the tools and confidence needed to lead high-performing technical teams and drive innovation.

## What You'll Learn and Practice

By joining this program, you will:

- Develop a personal leadership style aligned with engineering and technical contexts.
- Understand how leadership styles apply in technical teams and project environments.
- Build credibility, trust, and influence as an emerging engineering leader.
- Apply ethical thinking in engineering leadership decisions.
- Motivate, engage, and support high-performing technical teams.
- Manage diverse teams and foster inclusion in engineering environments.
- Use delegation and empowerment strategies effectively.
- Apply analytical approaches to complex engineering problems.
- Strengthen strategic decision-making and long-term planning skills.
- Assess and manage risks in technical projects.
- Communicate technical information clearly to diverse stakeholders.
- Navigate organizational dynamics and influence senior leadership.
- Apply emotional intelligence, negotiation, and conflict resolution techniques.
- Lead change, innovation, and continuous improvement in technical settings.



## The Program Flow

### Day 1: Foundations of Engineering Leadership

- Leadership styles and their application in technical fields.
- Understanding the transition from technical contributor to emerging leader.
- Self-assessment and personal leadership development planning.
- Building credibility and influence without relying on formal authority.
- Ethical considerations in engineering leadership.
- Understanding responsibility, safety, quality, and professional judgment.
- Practical exercise: Creating a personal engineering leadership profile.

### Day 2: Team Building and Motivation

- Principles of high-performing technical teams.
- Understanding what motivates engineers and technical professionals.
- Techniques for motivating and engaging engineering teams.
- Managing diverse teams and fostering inclusion.
- Delegation and empowerment strategies.
- Building trust, accountability, and collaboration in technical work.
- Workshop: Designing a team motivation and engagement approach.

### Day 3: Strategic Thinking and Decision Making

- Analytical approaches to complex engineering problems.
- Structuring technical decisions with clarity and evidence.
- Risk assessment and management in technical projects.
- Balancing quality, cost, time, safety, and performance.
- Innovation and creativity in engineering solutions.
- Long-term planning and resource allocation.
- Practical exercise: Applying a decision-making framework to an engineering challenge.

### Day 4: Communication and Stakeholder Management

- Effective presentation skills for technical information.
- Translating complex technical concepts for non-technical audiences.
- Negotiation and conflict resolution techniques.
- Collaborating across departments, functions, and disciplines.
- Managing up and influencing senior leadership.
- Building stakeholder trust through clarity, confidence, and follow-through.
- Role play: Communicating a technical recommendation to different stakeholders.



### Day 5: Driving Change and Continuous Improvement

- Leading organizational change in technical environments.
- Fostering a culture of innovation, learning, and improvement.
- Encouraging experimentation while managing technical risk.
- Performance management and feedback delivery.
- Supporting team development and accountability.
- Personal action planning for leadership growth.
- Final activity: Presenting a personal leadership development plan.

## Individual Impact

- Build confidence as an emerging engineering leader.
- Strengthen your personal leadership style and professional credibility.
- Improve strategic thinking, problem-solving, and technical decision-making skills.
- Enhance communication with technical and non-technical stakeholders.
- Develop stronger emotional intelligence, conflict resolution, and influence skills.
- Leave with a personalized leadership development plan for continued growth.

## Work Impact

- Improve performance, motivation, and collaboration in technical teams.
- Strengthen decision-making in engineering projects and technical initiatives.
- Improve communication between engineering teams and other departments.
- Support innovation, continuous improvement, and practical problem-solving.
- Reduce misunderstandings and conflict in cross-functional technical work.
- Build a stronger pipeline of capable future engineering leaders.

## Training Methodology

This program uses a practical and engineering-focused approach to help participants apply leadership skills directly in technical environments. Learning methods include:

- Interactive discussions and guided facilitation.
- Engineering leadership case studies.
- Leadership style and emotional intelligence self-assessments.
- Technical problem-solving and decision-making exercises.
- Team motivation and delegation workshops.
- Stakeholder communication and presentation practice.
- Negotiation and conflict resolution role plays.
- Innovation, change, and continuous improvement activities.
- Peer feedback, facilitator coaching, and personal action planning.



## Beyond the Course

Upon completion, participants will be prepared to lead with greater confidence, credibility, and technical awareness. They will return ready to:

- Apply a personalized leadership development plan.
- Motivate and manage technical teams more effectively.
- Make stronger strategic decisions in engineering contexts.
- Communicate technical information clearly to diverse stakeholders.
- Navigate organizational dynamics and influence with professionalism.
- Drive innovation, continuous improvement, and positive change within engineering teams.

