



ENGINEERING LEADERSHIP FOR EMERGING LEADERS

JULY 19–23, 2021 | Instructors: David Niño and Reza Rahaman | professional.mit.edu/elec

Note: All times are US Eastern Daylight Time. Schedule is subject to change.

DAY ONE, JULY 19

FUNDAMENTALS OF LEADERSHIP FOR ENGINEERING PROFESSIONALS

9:00–9:30 AM	Introduction to program instructors, participants, and learning goals. (Niño and Rahaman)
9:30–11:00 AM	Fundamentals of engineering leadership: Overview of perspectives on management and leadership and implications for emerging leaders. (Niño and Rahaman)
11:00–11:15 AM	BREAK
11:15 AM–12:00 PM	Fundamentals of engineering leadership (cont). (Niño and Rahaman)
12:00–1:00 PM	LUNCH
1:00–2:30 PM	Where leadership skills matter in technical career paths. (Rahaman)
2:30–2:45 PM	BREAK
2:45–4:15 PM	Creating a team vision: Review methods for creating a shared team vision and overview of practice exercise. (Niño)
4:15–4:30 PM	BREAK
4:30–4:45 PM	Introduce group project: Discuss how program participants will form groups to address topics of special interest.
4:45–5:30 PM	Learning from reflection: Participants review, assess, and document day's key learning. (Niño)

DAY TWO, JULY 20

LEADING IN MULTI-STAKEHOLDER AND SYSTEMS ENGINEERING ENVIRONMENTS

9:00–10:15 AM	Achieving collective support in multi-stakeholder environments: Discerning and prioritizing diverse stakeholder needs; Reconciling differences and presenting a unifying vision; Achieving buy-in and support for complex projects and programs. (Magarian)
10:15–10:30 AM	BREAK
10:30–12:00 PM	Achieving collective support in multi-stakeholder environments. (Magarian, cont.)
12:00–1:00 PM	LUNCH
1:00–2:30 PM	Leading the development of complex systems. (Joel Schindall, Gordon Professor of the Practice of Product Development, Emeritus, MIT, and formerly VP and Chief Technology Officer of Loral Space and Communications, and President of Loral Conic).
2:30–2:45 PM	BREAK
2:45–3:15 PM	Reflection: Participants review, assess, and document day's key learning.
3:15–5:30 PM	Form special interest groups and begin working on group projects.



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DAY THREE, JULY 21

BUILDING POSITIVE RELATIONSHIPS AND HIGH PERFORMING TEAMS

9:00–10:15 AM	Making an Impact: Setting yourself up for successful career progression. (Rahaman and Schindall).
10:15–10:30 AM	BREAK
10:30 AM–12:00 PM	How leaders create motivating environments in teams. (Niño)
12:00–12:10 PM	BREAK
12:10–1:10 PM	LUNCH – Joel Schindall on “From Geek to Chief: How did a PhD Geek Engineer from MIT wind up as Chief Engineer for a \$4B constellation of 48 low earth orbit satellites to provide phone communication from almost anywhere on earth? How did it work and what were the challenges?”
1:10–1:20 PM	BREAK
1:20–2:00 PM	Developing high performing teams: Challenges and strategies. (Feiler)
2:00–3:00 PM	Experiential learning exercise (Schindall and Feiler)
3:00–3:15 PM	BREAK
3:15–3:45 PM	Reflection: Participants review, assess, and document day’s key learning.
3:45–5:30 PM	Groups work on projects and final presentations.

DAY FOUR, JULY 22

MANAGING ONESELF, BUILDING AN INCLUSIVE ENVIRONMENT, AND NEGOTIATIONS

9:00–10:15 AM	Leadership operating framework. An interactive discussion on leadership, and the skills, characteristics, behaviors, and attitudes forming a framework for effective leaders. (McGonagle)
10:15–10:30 AM	BREAK
10:30 AM–12:00 PM	Leading an inclusive engineering environment: Strategies for developing inclusive and creative cultures in engineering teams. (Rahaman)
12:00–1:00 PM	LUNCH
1:00–3:15 PM	Managing conflict and negotiations: Evaluating your personal conflict management styles and practice negotiation skills. (Niño)
3:15–3:30 PM	BREAK
3:30–4:00 PM	Reflection: Participants review, assess, and document day’s key learning.
4:00–5:30 PM	Groups work on projects and final presentations.



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DAY FIVE, JULY 23	
FINAL PRESENTATIONS	
9:00–10:15 AM	Special topics presentations: Groups will deliver their final presentations on engineering leadership topics of special interest.
10:15–10:30 AM	BREAK
10:30–11:45 AM	Special topics presentations (cont.)
11:45 AM–12:15 PM	Charting your leadership development journey (Niño)
12:15–1:00 PM	Course reflection: Participants reflect on week's activities, assess program, and receive program certificates.
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