

COURSE SYLLABUS

Leading Sustainable Operations, 7.5 credits

Leading Sustainable Operations, 7,5 högskolepoäng

Course Code:	TSOR22	Education Cycle:	Second-cycle level
Confirmed:	Aug 11, 2026	Disciplinary domain:	Technology
Valid From:	Jan 18, 2027	Subject group:	Industrial Engineering and Management
		Specialised in:	A1N Second cycle, has only first-cycle course/s as entry requirements
		Main field of study:	Production Systems

Intended Learning Outcomes (ILO)

On completion of the course the student shall:

Knowledge and Understanding

- display knowledge of group dynamics and resistance in leading operations through different work processes
- display knowledge of how work processes and disruptions in sustainable operations affect human cognitively and emotionally
- demonstrate comprehension of identifying disturbances in operations as learning potentials in the organization.

Skills and Abilities

- demonstrate communication skills in leading consensus building processes through involvement, participation, and active engagement in work processes within operations
- demonstrate the ability to use methods and tools in leading meetings and development processes on the group level in operations
- demonstrate the ability to reflect on own and others' behaviour in relation to competence development in work processes.

Judgement and Approach

- demonstrate the ability to analyze the situation and taking role in leading sustainable operations
- demonstrate an understanding of leading sustainable operations through cross functional and multi-cultural context
- demonstrate an understanding of how self-awareness, feed-back processes, autonomy and involvement influence human motivation and performance for social sustainability.

Content

The course includes theories and methods for leading sustainable operations through interpersonal communication, involvement, group dynamics and awareness of how disturbances in flow can be seen as learning potentials for development in the organization.

- Self-awareness
- Interpersonal communication
- Motivation and performance
- Competence development in work processes
- Diversity and group dynamics
- Role analysis and conscious communication
- Feed-back, psychological safety and empathy

- Social sustainability in operations management
- Unfreeze in change management
- Situational leadership
- Organizational learning and flow thinking

Type of Instruction

Lectures, seminars, and communication training sessions are course activities.

Language of instruction is English.

Entry Requirements

The applicant must hold the minimum of a bachelor's degree (i.e the equivalent of 180 ECTS credits at an accredited university) in Engineering or Technology. The bachelor's degree should comprise a minimum of 15 credits in mathematics. Proof of English proficiency is required.

Examination and Grades

The course is graded 5, 4, 3 or U.

The final grade for the course is based on a balanced set of assessments. The final grade will only be issued after satisfactory completion of all assessments.

Registration of examination:

Name of the Test	Value	Grading
Examination	3 credits	5/4/3/U
Course work	4.5 credits	5/4/3/U

Course Literature

Please note that the course literature may be revised up to eight weeks before the start of the course.

Pittino, D. (2022). *The Concise Leadership Textbook: Essential Knowledge and Skills for Developing Yourself as a Leader. econcise.*