

Risk and resilience in textile supply chains

Risk och resiliens i textila försörjningskedjor

7.5 credits

Ladok Code: 52RR01

Version: 9.0

Established by: Education Committee 2015-06-02

Valid from: Autumn 2015

Education Cycle: Second cycle

Main Field of Study (Progressive Specialisation): Industrial Economics (A1F), Textile Management (A1F)

Disciplinary Domain: Technology

Prerequisites: Bachelor of Science degree in textile technology, textile economics, business economics, industrial economics, engineering,

media or design, as well as English B. Passed course in Logistics and Demand Driven Systems 7.5 credits at second cycle, or equivalent.

Subject Area: Leadership, Organisation and Management

Grading Scale: ECTS-credits

Content

- Theories and methods for dealing with risk and vulnerability in supply chains
- The concept of resilience and its impact on organisations' survival, and what builds resilience in organisations
- Basic models and tools for risk management and resilience application within logistics and supply chains
- Decisions based on risk and uncertainty
- Preventive safety at different levels
- Risk sharing, risk reduction and risk transfer
- Risk-driven business models

Learning Outcomes

After completing and passing the course, students should be able to:

Knowledge and understanding

1. master conceptual apparatus for managing and researching risk and resilience for different applications within industrial economics, especially textile management and logistics,
2. understand theoretical frameworks, methods and current research initiatives within risk management and resilience,
3. understand how risks and vulnerabilities in supply chains and infrastructure can be reduced or eliminated, and how greater robustness and resilience can be achieved,
4. analyse and synthesise the theories to strengthen and develop the resilience of supplier chains to risks and vulnerabilities, with a focus on textile supply chains,
5. analyse the complexity of problems with risk management and resilience in supply chains, particularly with a connection to logistics and textile applications,
6. describe how the risk picture is affected by various factors such as globalisation, outsourcing, concentration, etc.

Skills and abilities:

7. use methods for risk and vulnerability analysis of supply chains and customer and supplier relations,
8. understand and describe the different requirements placed on managing risks and vulnerabilities in the supply chain on technical, business-related, logistical and economic grounds,
9. plan the development of strategies for risk management and building up resilience.

Judgement and approach:

10. analyse and give advice on resilience development and continuity planning in textile supply chains and organisations,
11. communicate the importance of different strategies for development in relation to risks and vulnerabilities.

Forms of Teaching

The course consists of lectures, tutoring and seminars.

The language of instruction is English.

Forms of Examination

The following examinations will form part of this course with respect to the stated learning objectives:

1. Project work, 3.0 credits. Grading scale: ECTS
2. Individual written examination, 3.5 credits. Grading scale: ECTS
3. Active participation in seminars with discussion, 1.0 credits. Grading scale: Pass/Fail (U/G)

The final grade for the course is obtained through a weighted average value from the following elements: Project work (3.0 credits) and individual written exam (3.5 credits). All elements must be passed and completed.

Student rights and obligations at examination are in accordance with guidelines and rules for the University of Borås.

Literature and Other Teaching Materials

Sheffi, Y. (2007) *The Resilient Enterprise Overcoming Vulnerability for Competitive Advantage*. The MIT Press, London.
Waters, D. (2007). *Supply Chain Risk Management: vulnerability and resilience in logistics*. UK, Konan Page
Hollnagel, et al. (2006), *Resilience engineering – concepts and precepts*. Ashgate, Aldershot

A selection of articles and other literature may be included in the course.

Reference literature

See the separate reading list for reference literature (issued by the course director).
Articles issued by the course teacher and references to websites as per separate list.

Student Influence and Evaluation

The students' opinions are collected systematically and regularly through written course evaluations once the course is completed. One time per semester, student representatives, together with the Director of Studies and Programme Directors, evaluate completed courses. For additional materials, please refer to the University's policy on course evaluation and documents established by the Department Board, the Director of Studies and the Course Director.

Miscellaneous

The course is primarily a programme course for Master programme (Two Year) in textile management with specialisation textile value chain management.

This syllabus is a translation from the Swedish original.