

Educational Program

Code: [eCMCUen]

Educational Institution

Ettevõtluskeskus OÜ

Title of the Study Program

En: Construction Management Specialization (Columbia University; with Russian video subtitles)

Et: Ehituse Juhtimise Kvalifikatsioon (Columbia Ülikool; venekeelsete videote subtiitritega)

Language of Instruction

English

Study Group

ETR: Ehitus ja tsiviilrajatised

Purpose and Learning Outcomes

Purpose: To provide professionals in the construction field with comprehensive knowledge and the latest trends in construction management, enhancing their career opportunities and ensuring a competitive edge in the industry.

Learning Outcomes

1. The fundamentals of construction management from construction industry, the role of project manager, contract types, and project delivery methods.
2. How to delivery lean project and maintina sustainability.
3. Explore technology trends and project planning.
4. The key project scheduling techniques and procedures.
5. How to develop and manage a schedule and understand scheduling tools such as bar charts, activity on arrow, and activity on nodes.

6. The multiple relationships that connect all the construction activities from start to finish.
7. The importance of the critical path in a project network and project activities float.
8. The fundamentals of cost estimation and the design phase to perform cost estimation.
9. How to conduct the close out period of the project by exploring the punch lists, final approval, and turnover to the client.
10. The cost control methods emphasizing the Earned Value Method.
11. The basic economics of the essential components in every construction project.
12. The definition and calculation of different types of interest rates.
13. The importance of Cash Flow Diagrams.
14. Construction Industry Overview, Sustainability in the Construction Industry, Building Information Modeling and Technology Trends in Construction.

Target Group and Enrollment Conditions

Target Groups: Professionals in the fields of construction and civil engineering who aim to deepen their understanding of construction management, stay updated with the latest industry trends, and advance their careers. This includes project managers, site engineers, and those in leadership roles within construction firms.

Enrollment Conditions: Candidates should have a basic familiarity with construction concepts and practices. While the course builds on foundational principles, it's designed for those looking to elevate their expertise. Previous experience in project management or a related discipline is advantageous but not mandatory.

Total Training Volume (expected training time), its structure, learning environment

Total training volume: 100 academic hours, which consists of 100 hours of independent work (including homework).

The training is designed for two months.

Teaching methods: The course consists of lectures, practical exercises, independent work, and self-analysis.

List of educational materials: Course materials, including video lectures, slides, worksheets, practical work instructions, case studies, additional materials.

Learning environment: Training is conducted online on Coursera.
<https://www.coursera.org/specializations/construction-management>

Instructors

Ibrahim Odeh, Ph.D., MBA - Instructor at the Department of Civil Engineering and Engineering Mechanics, Columbia University.

Dr. Ibrahim Odeh is a faculty member at Columbia University's School of Engineering and the founder of the Global Leaders in Construction Management (GLCM) initiative. He collaborates with top construction firms like Skanska and AECOM on strategic management, market analysis, and entry strategies. A key figure at the World Economic Forum's project on "The Future of Construction", Dr. Odeh also leads the Construction Engineering and Management (CEM) program at Columbia, teaching courses on entrepreneurship and construction techniques. Recognized for his contributions, he was a finalist for the 2016 Presidential Award for Outstanding Teaching. Dr. Odeh earned his Ph.D. in Construction Management from the University of Illinois and an MBA from Minnesota. He's actively involved with organizations like the World Economic Forum and AECOM Academy.

Diplomas, Certificates, Certifications

After successfully completing all tasks and finishing the course within two months, a learner will receive a certificate.

Completing 70% of the course allows obtaining a diploma (tunnistus) from Ettevõtluskeskus OÜ. If less than 70% of the course is completed, a certificate (tõend) from Ettevõtluskeskus OÜ is issued for the completed course lessons.

Information about the Course Organizer

The course is organized by Ettevõtluskeskus OÜ, known for its high-quality training and highly rated trainers. All trainers are experts in their field and have deep knowledge and practical experience.

Contact Information for Ettevõtluskeskus OÜ:

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Phone: +3726520001

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In case of additional questions, please contact us at info@ettevotluskeskus.ee or call +372.6520001.

