

# PROJECT MANAGEMENT (PMP)

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## **PMP 710. Project Management Essentials. (3 h)**

This course introduces the foundational concepts of project management. The project management life cycle, as defined in the Project Management Body of Knowledge, is introduced, as are several project management knowledge areas such as risk, scope, schedule, quality, monitoring, and communication, among others. Distinctions between project, program, and portfolio management are explored. Achieving literacy in Microsoft Project software is a goal of the course, as well.

## **PMP 712. Mastering the Project Life Cycle. (3 h)**

The course pursues an in-depth exploration of the different phases of a project from Initiation to Closure. Project Setup focuses on the introduction of a robust project organization and qualities of an effective project manager. Project Planning reviews methods for defining project activities and establishing a budget and scheduling projects under certainty (CPM) and uncertainty (PERT). Techniques for identifying and analyzing project-related risks and selecting the right project approach (Waterfall versus Agile/Scrum), are considered. Project Execution focuses on tools for supporting, monitoring and controlling projects, with a focus on successful implementation. Students leave with a set of best practices for effective project management throughout the project management life cycle.

## **PMP 714. Portfolio and Program Management. (3 h)**

This course focuses on managing and coordinating multiple organizational projects. Students will develop the ability to build and manage a project portfolio, including consideration of project alignment, organizational goals, performance maximization, risk minimization, and program success. Particular attention is given to the differentiating aspects of program governance and compliance within organizational, industry, and legal requirements.

## **PMP 730. Agile Fundamentals. (3 h)**

This course introduces the foundational concepts of Agile, which is an iterative approach to project management (PM). Agile is contrasted with other PM methodologies. An introductory consideration of scrum is provided, including Scrum events and artifacts, the anatomy of a sprint, the roles of Scrum Master and Scrum team members, as well as release planning.

## **PMP 732. Advanced Agile: Frameworks and Techniques. (3 h)**

This course builds on the foundation established in the "Agile Fundamentals" course, placing an emphasis on building the practical skills necessary for leading agile projects in organizations. In addition to learning about predominant agile frameworks, the course emphasizes continuous improvement through retrospectives, lean-agile thinking, and the use of agile metrics. P - PMP 730.

## **PMP 750. Lean Six Sigma. (3 h)**

The course also discusses how the Lean and Six Sigma approaches can be applied early in the development phase of products and services with basic principles for lean development and design for six sigma. A review is provided of successful Lean Six Sigma project implementations in different industries, with lessons learned and an outlook on remaining challenges in the era of the fourth industrial revolution.

## **PMP 751. PMP Leadership Preparation. (3 h)**

The Project Management Professional (PMP) Leadership Preparation course is designed to prepare project managers to be exceptional project leaders for their organizations. Obtaining leading industry certification is important for many. This course provides the knowledge and skills aligned with the PMI PMP Exam Content Outline (ECO), including universal competencies for all project managers; predictive, agile, or hybrid.

## **PMP 752. ScrumMaster Leadership Preparation. (3 h)**

This course will prepare students for the Professional ScrumMaster certification exam offered by scrum.org. Detailed consideration is given to the Scrum framework and the key attributes of being an effective Scrum Master.

## **PMP 753. Leading Construction and Engineering Projects. (3 h)**

This course will enable students to develop an in-depth knowledge of industry-specific subjects in construction and engineering design, planning, and safety. Students will gain a deep understanding of project estimation, construction ethics, and writing contracts as experienced within the construction and engineering contexts. Salient industry and organizational factors that impact the performance of construction and engineering projects will be emphasized.

## **PMP 799. Capstone in Project Management. (3 h)**

This immersive hands-on course offers students the opportunity to apply the principles, best practices, techniques, and frameworks they have developed throughout their previous coursework to actual project management (PM) context in an organization of their choosing. Assessment of the current PM environment creates the basis for recommendations for furthering the intent of the project(s) under consideration.