



Project Management Principles

Description

This course describes what Project and Project Management are using the PMI Project Management methodology (PM Body of Knowledge). Project Management Principles gives the theoretical principles useful for future project leaders as well as future project team members. The objective of project management is to ensure the completion of a project in compliance with the agreed scope, schedule, budget and quality requirements, in order to meet customer expectations. The course addresses not only the technical aspects of projects but also factors to be taken into consideration such as business models, human resources, communication and stakeholders management.

Learning Objectives and Outcomes

- Understand the importance of project management in IT
- Review the structure of the process groups and the knowledge areas of project management
- Cover all the competencies, hard skills and soft skills required for the role of project leader
- Understand the complete cycle of a project and its different stages
- Be able to control and monitor the execution of a project, including financial management
- Know how to anticipate risks during the different phases of a project
- Understand the importance of human factors in the success of a project
- Know how to prepare, plan, organize and supervise a project.

Course Schedule and Contents

Session#1	<ul style="list-style-type: none">▪ Course description, schedule and objectives▪ Definition of a project and project management▪ Project Management Institute PMI organization▪ Definition of Process groups and Knowledge areas▪ Role and characteristics of a Project leader
Session#2	<ul style="list-style-type: none">▪ From idea to project: feasibility study and business case▪ Importance of Project Integration▪ Definition and examples of project charter▪ Scope management activities, scope control
Session#3	<ul style="list-style-type: none">▪ Time and cost management, definition of the Gantt and Network (PERT) diagrams, identification of dependencies▪ Practical examples with demos of Project Management software▪ Estimation techniques, Budget preparation▪ Definition and practice of Earned value technique
Session#4	<ul style="list-style-type: none">▪ Importance of quality management in a project, quality techniques (Six Sigma, Fishbone diagram, Pareto analysis)

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- Preparation of the Human Resource Management plan
- Stages of the development of a team
- Management of the communication process in a project
- Know how to identify and measure the risks of a project

Session#5

- Understand the project's supply management process
- Understand the complexity of managing relationships with suppliers
- Know how to identify the stakeholders of a project and manage their expectations and their commitments
- Understand the issues and dilemmas that a project manager may encounter every day
- Understand the code of ethics that a project manager must subscribe

Session#6

- Online Quiz exam with 100 questions

Grading

Attendance & Participation 40%

Exercise % Homework 20%

Quiz 100 Questions with no document 40%

Policies

- I expect you to be on time and to be respectful of those talking or presenting
- Attendance in every class is expected. Class participation and discussion is strongly encouraged.
- One exercise has to be done and completed between Session 2 and 3
- Students can install the freeware ProjectLibre on their laptop to prepare a project plan based on the exercise

Bibliography

- *A Guide to the Project Management Body of Knowledge (PMBOK® Guide)*—Fifth Edition
- *PMP Training kit*, Sean Whitaker, Microsoft © 2012
- *ABC de la Gestion de Projet*, Dr Rémi Bachelet, Ecole Centrale de Lille
- *Le Management de Projet*, Mohammed Saad
- *Cours de gestion de projet*, Michel Emery
- *Project Management cases studies*, Harold Kerzner
- *Gestion de projet en TI*, Manon Guillemette
- *Project 2013, Guide pratique pour les chefs de projet*, Vincent Capitaine, Dunod

Good Luck !