

## Project Management - Principles and Practices



This session is taught over 4 or 5 days to a group. It covers all required topics included in the Project Management Professional (PMP) certification examination conducted by the Project Management Institute (PMI). The participants with interest in taking the PMP examination will benefit from this course.

**WHERE?** At your facility (For larger group)

**WHEN?** At a mutually convenient time.

**DETAILS:** Please visit for information and registration.

[www.Nutec-us.com/wp-pmp.html](http://www.Nutec-us.com/wp-pmp.html) - onsite seminar

[www.Nutec-us.com/wp-sem.html](http://www.Nutec-us.com/wp-sem.html) - Other seminar

### WHO SHOULD ATTEND?

- Managers and executives with responsibility for diverse projects
- Anyone seeking a structured project management method
- Project managers currently experiencing difficulty keeping projects on the track.
- Support function managers and supervisors who want a better understanding of the project management process.
- Individuals who want to prepare for project management exam.
- Six Sigma champions (Black & Green Belts) engaged in leading projects with significant resources.

The course covers in details the following Project Management Body of Knowledge (PMBOK) areas like Cost Management, Scope Management, Time Management, Communication Management, Human Resource Management, and Procurement Management and includes:

- Break Even Chart
- Average Rate of Return on Investment
- Present and Future Value of Money
- Precedence Diagram
- Critical Path Method - Schedule
- Program Evaluation and Review Technique (PERT) - Schedule
- Earned Value Analysis - Performance reporting
- Accelerated and Double Declining Depreciation
- Risk Rating Matrix

### WHY DO YOU NEED PROJECT MANAGEMENT?

It is true that many projects are done just with common sense. Particularly, those that are one-person projects or endeavors that involves very few people. But what about your projects of reasonable team size and cost? Are you using the proven methods for the job? Wouldn't you like to try the method others have benefited from? Why re-invent the wheel? Learn how to apply the art and science captured in the Project Management Body of Knowledge (PMBOK) and recommended by the Project Management Institute.

### COURSE DESCRIPTION

In today's fast-paced business world, organizations that practice sound project management principles secure competitive advantage over those that run the projects by experience alone. To get products and services to the market faster with cost advantage, today the projects must be time-based as well as cost-based. Project Managers who understand how to use the tools of Project Management are taking leadership roles in the constant drive toward operating improvement.

This comprehensive 4-day seminar is an in-depth and participative course providing project managers with the skills, knowledge and tools needed for project success. The attendees to this session learn the essential steps in setting up project plans, scheduling work, exercising appropriate control and monitoring progress to achieve desired project goals. Through class exercises and realistic simulations, attendees learn how the principles are put into practice. This course conforms to Project Management Book of Knowledge (PMBOK by Project Management Institute) and reviews most materials included in the Project Management Professional (PMP) exam. The topics covered in this session are those considered best practices in the field. Upon completion of this course, the participants return to their own organizations prepared to meet time, budget and performance objectives of their own projects.

Be sure to visit us in the web and explore our sites on seminars, software, support services, and client information.

[www.Nutec-us.com](http://www.Nutec-us.com)



**Nutec, Inc.**

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## TOPICS OF DISCUSSIONS

### Module 0: *Project Management Overview*

- What is a Project and what are its Characteristics?
- What is Project Management?
- Structure of Organization Suited for Project Management
- Phases and Life Cycle of a Project
- Nine Areas of Project Management Knowledge (PMBOK # 1 – 9 Overviews)

### Module 1: *Project Initiation (Concept & Definition)*

- Project Selection and Justification
- Project Integration and Scope Management (PMBOK # 1&2 Highlights)
- Budgeting and Managing Cost (PMBOK #4 Highlights), etc.
- Tasks Performed (10 Tasks)
- Examples and Q&A

### Module 2: *Project Planning*

- What is planning?
- Project Planning Steps
- Develop a Mission, Vision, Goal, and Objective for the Project
- Work breakdown Structure (WBS)
- Benefits and Reasons of Scheduling
- Tools for Time management (PMBOK #3 Highlights), etc. **Tasks Performed (7 Tasks)**

### Module 3: *Project Execution*

- Managing Communications (PMBOK #7 Highlights)
- Commit Project Resources
- Implement Project Plan
- Manage Project Progress
- Team Building [Forming, Norming, Soothing, Diversity, etc. ]
- Tasks Performed (5 Tasks)

### Module 4: *Project Control*

- Project Control and Evaluation
- Self Control by Team Members
- Project Control Characteristics
- Project Control Using Earned Value Analysis Examples and Q&A
- Review Key Project Control - Techniques Earned Value Management Tasks Performed (8 Tasks)

### Module 5: *Project Closeout*

- Tasks Performed (5 Tasks)

### Module 6: *Professional Responsibilities*

- Project Management in Your Company – Considerations for Implementation
- Tasks Performed (5 Tasks)

*Index: Solutions to Problems, References,*

## COURSE INSTRUCTOR

This seminar is led by Ranjit K. Roy, Ph.D., P.E., PMP, President of Nutek, Inc. Dr. Roy specializes in the Taguchi approach to quality improvement.



Dr. Roy has achieved international recognition as a consultant and trainer for his down-to-earth teaching style of the Taguchi experimental design technique, project management, and several other quality engineering topics. He is also the author of two leading textbooks on Taguchi application, and Qualitek-4 software used in the seminar. He began his career as senior design engineer with Burroughs Corporation following completion of graduate studies in engineering at the University of Missouri-Rolla in 1972. He then worked for General Motors Corp. (1976-1987) assuming various engineering responsibilities with his last position as that of reliability manager. Dr. Roy is a fellow of the American Society of Quality.

## ATTENDEES EVALUATION

"The course book was comprehensive and thorough – very detailed and helpful."

"The instructor based the course on the MPBOK, which I thought was beneficial, especially for those seeking certification. There was a significant amount of stats/math. I had had stats in the past, so this was a good review."

"The class taught me a lot of practical application of some math and statistical concepts. The instructor was patient and insightful. His experience was a nice addition to most categories."



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