

## Seminar's Title

### EFFECTIVE PROJECT RISK MANAGEMENT

#### Purpose and Background:

The management of a project is a difficult and challenging task due to the many variables determining its final outcome. Although classic project management techniques addressing Scope, Cost and Schedule requirements are proven approaches to managing a project effectively, projects often run into trouble even when well-planned and sound controlled methods are employed. The common reason is that threats to the projects are not clearly identified and actions to control these threats are not properly implemented. Consequently, project managers/project engineers must be consciously aware of potential threats to the success of their projects and take early, effective, and offensive actions against these threats. An effective risk management approach will provide engineers/managers with a needed management technique that will significantly increase the probability of success for their projects by addressing these problems, resulting in clear benefits to them and their customers.

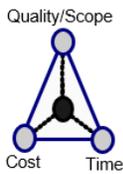
#### Learning Objectives:

To provide practical coverage of all basic aspects of project risk management principles and methodologies by providing the participants with the basic elements of risk management, its process for planning and controlling potential risks, the required skills and how this process fits with scope, cost and schedule requirements in the overall context of the project life cycle. This seminar examines an effective, practical risk management approach applied to projects to mitigate the uncertainty level associated with the planning and control of a project. The seminar will help engineers working as project team members understand risk management issues they have to deal with in the course of their project performance as well as increase their project risks' visibility during the project life cycle.

#### Benefits for Participants:

- Understand why risk management is an essential element of a complete and effective project management approach
- Learn how to effectively identify risks that may affect your project's success
- Develop a strategy to assess potential risks and select those likely to impact your project
- Make project decisions faster, more effectively and more confidently with a proactive risk management approach
- Learn to develop an effective risk management planning and control strategy
- Learn to develop avoidance and contingency plans for risky events
- Learn how to continually re-evaluate and reassess risks during project implementation
- Utilize the best approach, tools and techniques to manage risks





- Document a useful “lessons learned” risks based on your project strategy
- Improve the probability of successfully completing projects on time, within budget and meet stakeholders' expectation

### Who Should Attend?

This seminar is for senior managers, portfolio/program managers and engineers and those who would like to learn the important elements of the risk management process as well as project managers and project engineers who want to implement an effective, practical risk management process for their projects. This well-thought-out and well-documented risk management process will ensure that project team members know their roles in the process so as to complete their project on time and within budget as a team and meet or exceed stakeholders' needs and expectations.

**Outline:** The seminar is scheduled for three (3) days; each day starting from 8:00 AM to 4:30 PM with a half hour coffee break during each morning and afternoon session.

### DAY 1

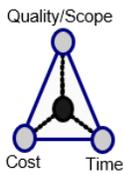
#### Risk Management Overview

- Why project risk management is required?
- The project risk management needs
- Risk management in project operations
  - Project risk management objectives
  - Business risk vs. project risk
  - Internal project risk
  - Risks during project life cycle
  - Risk integration in project management
  - Acceptable vs. unacceptable risk
  - Risk equation
  - Contract phase plan for risks
  - Risk attitudes of organizations and stakeholders
  - Risk attitude spectrum
  - Stages of risk mindset
  - Risk management maturity level
  - Risk tolerance
  - Critical Success Factors (CSFs) for project risk management

#### Definition of Risk Management

- Risk and uncertainty





- Risk and opportunity
- Project risk management
- Primary aspects of project risk management
- Contract types and project risks

### **Risk Management Process**

- Risk management planning
- Risk management control

### **DAY 2**

#### **Risk Management Planning**

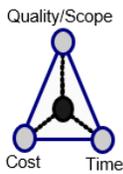
- Risk management approach
- Risk identification
- Risk assessment
- Risk register
- Qualitative risk analysis
- Quantitative risk analysis
- Risk selection
- Risk response plan
- Risk avoidance approach
- Risk contingency approach
- Risk tracking and reporting approach
- Risk organization and responsibilities
- Risk management database

### **DAY 3**

#### **Risk Management Control**

- Risk avoidance plan implementation
- Risk avoidance plan actions evaluation
- Risk reports and reviews
- Risk contingency plan implementation
- Risk contingency plan actions evaluation
- Risk effectiveness evaluation
- Contingency plans redefinition
- Risk register updates





- Key risk management responsibilities
- Risk management software
- Risk audit
- Risk knowledge transfer
- Risk management best practices

### Case Studies, Exercises and Interactive Group Discussions

- ***Ormen Lange: Construction of the world's longest subsea super pipeline***
- ***Three Gorges Dam: Construction of the world's largest hydroelectric power plant***
- ***Burji Arab: Construction of the world's most luxurious "seven-star" hotel***

Apply the effective and practical risk management techniques learned in the course to identify the project risks and set up risk management plans for those.

### Reading Reference:

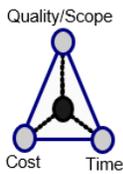
***"Effective Project Risk Management for Project Managers: A 21<sup>st</sup> Century Approach."***

Nghi M. Nguyen, PMP. Project Management Institute (PMI) 29<sup>th</sup> Convention, Long Beach, California, USA, 1998.

**Seminar's Instructor: Dr. Nghi M. Nguyen, Ph.D., P.E., PMP, M.ASCE.** President and CEO of NDV Project Management Services, Inc (NDV) since 1995, Dr, Nghi Nguyen has had more than 30 years of progressive, domestic and international consulting and training experience in the field of project/program/portfolio management on major construction, aerospace, defence and high-technology projects with leading Canadian and U.S. corporation such as the SNC-Lavalin Group, Lockheed Martin, CAE and the Canadian Space Agency and NASA. Prior to founding NDV in 1995, he served as Program Control Manager for the multi-billion dollar Canadian Patrol Frigate (CPF) program, the largest and most complex shipbuilding program in Canadian history for Lockheed Martin Canada (formerly Unisys Systems Canada).

As an internationally recognized project management consultant and trainer, Dr. Nguyen has assisted clients with project management approaches to effectively and efficiently complete projects and attain their objectives. He is a specialist in project management training, consulting, definition, development, identification of project objectives, constraints and methodologies. Dr. Nguyen worked as a project management consultant for the Canadian Space Agency (CSA) on projects associated with the International Space Station (ISS) program, the 16-nation effort, lead by NASA, to build the permanently orbiting laboratory in space, the largest and most sophisticated international engineering project ever undertaken in the history of the world as well as for SNC-Lavalin International on China's Three Gorges hydro-electric development project, the largest construction project in the world to date, and was involved in a number of projects in the Information Technology (IT) and Oil and Gas (O&G) sectors, among them was the construction of the \$ 5 billion Hibernia Oil Production Platform in St John, Newfoundland, Canada. Dr. Nguyen has delivered project management seminars for the American





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Society of Civil Engineers (ASCE), International Institute for Learning, Inc (IIL) in the USA, EuroMatech and Britannia of the U.K., Glariden Global in Singapore and various organizations in Asia and Vietnam as well as those associated with the engineering organizations worldwide.

An internationally recognized speaker, author and presenter, Dr. Nguyen has written and presented numerous technical papers on project/program management related topics in international conventions and congresses in Canada, the U.S., Europe, Asia and the Caribbean, sponsored by professional associations such as the Project Management Institute (PMI), the American Consulting Engineering Council (ACEC), The Association for the Advancement of Cost Engineering (AACE) International, American/Canadian Society of Civil Engineers (ASCE/CSCE), the Pan-Pacific Business Association (PPBA), the American Institute of Aeronautics and Astronautics (AIAA), the Caribbean Council of Engineering Association (CCEA) and the Paris-based association Francais des Ingenieurs et Techniciens d'Estimation et de Planification de Projets (AFITEP). Since 1995, Dr. Nguyen has conducted numerous project management seminars for thousands of project managers practising in all industries in a variety of topics in many countries including Canada, the U.S.A., the U.K., France, Spain, Germany, the Netherlands, Austria, Norway, Switzerland, Cyprus, China, Hong Kong, Thailand, Singapore, Malaysia, Japan, Indonesia, Vietnam, Australia, New Zealand, the U.E.A.(Dubai and Abu Dhabi), Kuwait, Saudi Arabia, Colombia and Barbados.

Educated at McGill and Concordia Universities in Montreal, Quebec, Canada, Dr. Nguyen holds B.S., M.S. and Ph.D. degrees in Civil Engineering and Construction & Project Management, is a Certified Project Management Professional (PMP) and has been a part-time professor at the Faculty of Engineering and Computer Science at Concordia University, teaching project management courses at both undergraduate and graduate levels since 1997. He has also lectured under the United Nations Development Programme (UNDP), McGill University Executive Institute, the Maastricht MBA programme (a joint programme between the Maastricht School of Management of the Netherlands and the School of Industrial Management of Ho Chi Minh City University of Technology, Vietnam) and is a registered civil engineer and project manager in both Canada and the USA. Dr. Nguyen was certified as a PMP (Project Management Professional) by the Project Management Institute (PMI) in 1995. He served as a member of the Canadian Advisory Council (CAC), set up by The Standards Council of Canada (SCC) to participate in the development of the International Organization for Standardization (ISO)'s project management standard released in September 2012 as ISO 21500 for project management as well as provided recommendations as Draft Reviewer and Contributor to the PMBOK® Guide – Fifth Edition of the Project Management Institute (PMI) released in January 2013, both considered by project management professionals worldwide as globally and internationally accepted project management standards. Dr. Nghi Nguyen has also been serving the same role to the PMBOK® Sixth Edition recently published in the Fall of 2017 by PMI.

