

# Professional training in Project Engineering for Scientists, Engineers and Managers

Project Scheduling and Costing
Project Risk Management
Quality Assurance

# www.classic.highware.info

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# **SCOPE**

### Competencies

- Achieving results
- Optimising resources
- Risk management

# Prerequisite

Prior education in project engineering or professional exposure to project management.

## Objectives

• To become familiar with the processes aimed at identifying, analysing and responding to project risks.

## **Duration: two days**

#### Features

- ► Terminology used in this course complies with PM BoK (Project Management Body of Knowledge published by Project Management Institute).
- Methodologies presented in this course conform with large project (ESA, NASA, DoD, DoE).
- Practices presented in this course are consistent with PRINCE2 (Projects IN Controled Environments) published by the OGC (Office of Government Commerce).

# **CONTENTS**

### Project risks characterized

- Qualitatively: identification of undesirable events supposed not to occur.
- Quantitatively: potential over-cost multiplied by probability of occurrence.

## **Risk analysis**

- Identification and prioritisation of risks before
- determining adequate strategies: acceptance, avoidance, mitigation or transfer.
- Stakeholders requirements and relatedpreventive or contingency mitigation.
- Negotiation for "who takes the risk"; subsequent
- determination of contingency and risk budgets. Application in large projects.

#### Project Failure Mode Effect Analysis (FMEA)

- Project baseline plan failure mode analysis, and identification of severity of prospective failures. Engineering failure severity using Ishikawa
- methodologies.

#### Risk management

- Monitoring risk factors.
- Triggering contingency plans or emergency action planning.
- ► Re-estimating periodically financial risk exposure and consolidation.
- Management of assumptions to document request for budget extension.

## Target audience

 Managers, engineers or scientists with budgetary and organizational responsibilities in a project.

