



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

Project Scheduling and Costing
Project Risk Management
► Quality Assurance ◀

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SCOPE

▶ Competencies

- ▶ Achieving results
- ▶ Optimising resources
- ▶ Quality management

▶ Target audience

- ▶ Managers, engineers or scientists with technical or organizational responsibilities in a project.

▶ Prerequisite

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

▶ Objectives

- ▶ To become familiar with the processes required to assure that a system or a specific part will comply with quality requirements

▶ Duration: two days

▶ Features

- ▶ Methodologies presented in this course conform with large project (ESA, NASA, DoD, DoE). Practices presented in this course are consistent with PRINCE2 (Projects IN Controlled Environments) published by the OGC (Office of Government Commerce) and ISO900 series.
- ▶ Terminology used in this course complies with PM BoK (Project Management Body of Knowledge published by Project Management Institute).

CONTENTS

▶ Quality for users

- ▶ Construction of quality through construction of support system.

▶ Requirement analysis for quality

- ▶ How requirements are to be formulated (functional and non-functional).
- ▶ How a definition is written and how documentation is specified and managed.
- ▶ Construction of requirement baseline to integrate RAMS (Reliability, Availability, Maintainability and Safety) requirements.
- ▶ Assurance of compliance to requirements using compliance matrix.

▶ Quality for systems

- ▶ Construction of quality assurance using components quality assurance and certification.
- ▶ From Change Request (CR) establishment and circulation to version control of components and parts.
- ▶ Keys to identify and control configurations, configuration planning and configuration management planning.

▶ Quality management systems

- ▶ Quality management answers and their integration into a Quality Management System (QMS).
- ▶ Quality Management System (QMS) review from an example: quality manual, plan, records, processes and procedures.