HIGHWARE

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
- ▶ Organisation, planning and control

▶ Target audience

- ▶ Managers, engineers or scientists with budgetary and scheduling responsibilities in a project.

▶ Prerequisite

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

▶ Objectives

- ▶ To become familiar with techniques in use for project time and cost management (and espacially as implemented in project scheduling software as OpenProj, GanttProject or Microsoft-Project).

▶ Duration: two days

▶ Features

- ▶ Terminology used in this course complies with PM BoK (Project Management Body of Knowledge published by Project Management Institute).
- ▶ Techniques presented in this course are implemented in project management software tools.
- ▶ Practices presented in this course are consistent with PRINCE2 (Projects IN Controled Environments) published by the OGC (Office of Government Commerce).

CONTENTS

▶ Construction of project schedule

- ▶ Construction of project network diagram using different types of links (finish-to-start, start-to-start, finish-to-finish, start-to-finish).

▶ Earned Value Management

- ▶ Cost control standard criteria: PV (Planned
- ▶ Value), AC (Actual Cost) and EV (Earned Value). Case study: integration of time and cost management in projects

▶ Resource analysis

- ▶ Resource and budget estimates.
- ▶ Resource histograms and the S-curve: application with software tools (GanttProject, OpenProj, Microsoft Project).
- ▶ Case study to integrate time and resource analysis.
- ▶ The two types of resource leveling (duration driven and effort driven).

▶ Time analysis

- ▶ PERT-CPM and the negative float.
- ▶ Application with software tools (GanttProject, OpenProj, Microsoft Project).