

Systems Engineering Management

Presented by the Graduate School of
Technology Management,
University of Pretoria

5 CPD points

Brief Description

A project manager remains responsible and accountable for the success of a project whereas a systems engineer remains responsible for the systems engineering and other engineering activities of the project. The focus of this course is therefore on **Systems Engineering Management**, where the delegates will be exposed to relevant management principles, processes and standards, and the development of the Systems Engineering Management Plan, generally known as the SEMP.

Course content



Systems Engineering Management (2 days)

- Overview of the system life cycle
- Introducing management
- Introducing project management models (PMBOK, PRINCE2, Agile project management such as SCRUM)
- Systems engineering management models
- Difference between project management and systems engineering management
- Management responsibilities
- Organising systems engineering management
- Management metrics
- Systems engineering management planning, formal plans
- Technical design reviews and audits
- Managing change
- Case study



Building High Performance Teams (3 days)

- Leadership styles; identifying your own
- Leadership vs. Management; what are the differences?
- Organising for success
- Role of organisational culture
- Motivating your team
- Decision making
- Importance of communication
- Taking ownership of a project
- Managing stress; dealing with conflict
- Behaviour patterns and their role; influencing behaviour patterns
- Importance of team building
- Assessing team performance
- Case studies; practice sessions



Learning Outcomes

Delegates who successfully complete the modules will be able to:

- ✓ Plan and structure the systems engineering effort of the project.
- ✓ Develop a coherent and effective SEMP, and understand its interfaces with the overall project plan.
- ✓ Identify and source high performing team members, structure and build a high performance systems engineering team.

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Who should enrol?

This course is ideal for you if you are involved in or associated with projects, whether as project manager, planner, project team member or senior manager. This course is suitable for all sectors of business and government.

Accreditation and certification

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This course is accredited by the Engineering Council of South Africa (ECSA) and course participants will be eligible to claim 5 Continuing Professional Development (CPD) points.

Registration and Enquiries

Client Information Centre

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For more information (Including Course fee, Start date, schedules) Please visit: www.enterprises.up.ac.za

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