

IX Academics MSc Course IX7521: In Field Projects critical analysis

IX7521 course approach

This course is taken at distance.

Students are tutored by:

- Visio conferencing,
- E-mail,
- Telephone.

This course is a combination of:

- individual critical analysis,
- team reflective analysis.

This course is an opportunity for students to review real cases and experience real situations.

IX7521 Learning Outcomes

At the end of FHEQ (Framework for Higher Education. Qualifications) Level 7, students should understand:

- The construction of a requirement baseline (including making requirements measurable and characterized) and definition baseline.
- Both economic and strategic value analysis of projects.
- Methods to estimate time and cost in projects.
- Methods to evaluate performance status during execution.

Cognitive Skills

- Critical thinking and creativity: identification and diagnosis of project success requirements and construction of related adequate project management.
- Learning through reflection on practice and experience.

Practical and Professional Skills

- Organisation of effective kick off reviews, including how to assure that a common view is shared of and within the project.
- Use of time and cost scorecard to identify execution versus management issues during project execution.
- Control of project execution with allocated resources.
- Direction of projects, including how to assure project compliance.
- Problem solving and decision making: establishing criteria for successful projects and project management.
- Effective use of Communication and Information Technology (CIT): practical approach of project scheduling software tools (both freeware tools or commercial ones).
- Leadership and performance management: design and improvement of decision making processes to control or direct projects.

IX7521 Expected Student Learning Task

Total Learning time 200 hours:

- 12 tutored hours distant tutoring,
- 188 hours independent and team study.

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IX7521 Contents

IX7521-C1 (individual): Each student is required to deliver critical analysis of a requirement baseline and/or compliant definition baseline

- 1.1) Internal consistency of the analysed baseline (conflicting items)
- 1.2) Internal comprehensiveness of the analysed baseline
- 1.3) Value of the proposed indicators and validation plan (for requirement baseline) or acceptance criteria and verification plan (for definition baseline)
- 1.4) Economical justification of the proposed baseline
- 1.5) Strategic justification of the proposed baseline

IX7521-C2 (team): Each team is required to deliver a reflective report to analyse project definition review

- 2.1) Critical risk and success factors for project definition reviews
- 2.2) Categories of projects with the perspective of definition review
- 2.3) Best practices related to categories
- 2.4) Project engineering (vs system engineering) for project definition reviews

IX7521-C3 (individual): Each student is required to deliver critical analysis of a project baseline plan and related project performance measurement plan

- 3.1) Internal consistency of the analysed project baseline plan and related project performance measurement plan (conflicting items)
- 3.2) Internal comprehensiveness of the analysed project baseline plan and related project performance measurement plan
- 3.3) Justification of the analysed project baseline plan
- 3.4) Justification of the task performance metrics and project performance consolidation system
- 3.5) Processes in place for the change control of the analysed project baseline plan and/or related project performance measurement plan

IX7521-C4 (team): Each team is required to deliver a reflective report to analyse project plan and performance reviews

- 4.1) Critical risk and success factors for project plan reviews
- 4.2) Critical risk and success factors for project performance reviews
- 4.3) Categories of projects with the perspective of plan reviews
- 4.4) Categories of projects with the perspective of performance reviews

IX7521-C5 (individual): Each student is required to deliver a critical analysis of resource limited versus resource unlimited schedules

- 5.1) Technical construction of the resource unlimited schedule (project network)
- 5.2) Technical review of the resource unlimited schedule (Critical Path Analysis)
- 5.3) Justification of the request for resources (from resource unlimited schedule)
- 5.4) Alignment of project schedule with resource allocation decisions (resource limited schedule)
- 5.5) Documentation of the project kickoff decision (S-curve)

IX7521-C6 (team): Each team is required to deliver a reflective report to analyse project S curve and Earned Value Management System

- 6.1) Critical risk and success factors for technical construction of project S-curve
- 6.2) Critical risk and success factors for managerial construction of project S-curve
- 6.3) Critical risk and success factors for steering decision based upon project S-curve
- 6.4) Categories of projects with the perspective of Earned Value Management Systems