

## Module: Project Management 261

<b>Module name:</b>	Project Management 261
<b>Code:</b>	PMM261
<b>NQF level:</b>	6
<b>Type:</b>	Core – Diploma in Information Technology (all stream)
<b>Contact Time:</b>	30 hours
<b>Structured time:</b>	6 hours
<b>Self-directed time:</b>	34 hours
<b>Notional hours:</b>	70 hours
<b>Credits:</b>	7
<b>Prerequisites:</b>	EUC161

### Purpose

The course will provide the student with the means of conducting the management of a project from the conceptual phase, the planning phase, the analysis phase, and to the implementation and delivery phase; with a focus on agile software project development. At the end of the course, students will be able to align project management components and to integrate these into a single overall project management plan for a simple to a moderately complex project.

### Outcomes

Upon successful completion of this module, the student will be able to:

- Demonstrate a detailed understanding of the main areas of project management including key terms, concepts, facts and current business examples.
- Evaluate, select and apply project management standards and best practices in investigation or application processes within the context of agile software projects.
- Identify, analyse and solve problems related to agile software project management in unfamiliar contexts.
- Demonstrate an understanding of different forms of knowledge, schools of thought and forms of explanation within project estimation and techniques and awareness of knowledge production processes.
- Demonstrate the ability to make decisions and act appropriately in project management in both familiar and new contexts, demonstrating an understanding of the relationships between systems and how they impact other systems.
- Present and communicate complex information reliably and coherently regarding project status reporting and review using appropriate academic and professional or occupational conventions, formats and technologies for a given context.
- Demonstrate the understanding of Six Sigma

### Assessment

Assessment is performed using a variety of instruments:

- Continuous evaluation of theoretical work through two written assignments, a formative test, and a summative test.

- Final assessment through a written examination.
- The assignments or projects collectively will count 20% of your class mark.
- All tests will collectively account for 80% of your class mark.
- Your class mark contributes 30% towards your final mark for the subject, while the final assessment accounts for 70% of your final mark.

## Teaching and Learning


### Learning materials

#### Prescribed books (EBSCO)

 **Golembiewski, R. ed. (2018). Current Topics in Management: Volume 8. Routledge.**

#### Additional Reference Material:

 **Carroll., J. (2012). Agile Project Management: for speedy results, Ineasysteps. [ISBN-13: 978-1840784473]**

 **Stepanek., G. (2005). Software Project Secrets: Why Software Projects Fail. [ISBN 978-1-4302-0055-0]**

### Learning activities

Learning will be facilitated by the lecturer with student centred activities that involve problem-based learning where pupils are presented with challenges that replicate the situation in the real-world environment. This will be achieved through a combination between presentation of theoretical concepts, guided exercises, group work and discussions during the module. To achieve this, two mandatory assignments must be completed during the module.

### Notional learning hours

Activity	Units	Contact Time	Structured Time	Self-Directed Time
Lecture		27.0		13.0
Formative feedback		3.0		
Project				
Assignment	2			6.0
Test	2		4.0	8.0
Exam	1		2.0	7.0
		<b>30.0</b>	<b>6.0</b>	<b>34.0</b>

### Syllabus

- Project management fundamentals.
- Software development methodologies: Traditional vs Agile approaches
- Project management standards and best practices
- Project planning and organisation
- Managing project stakeholders and eliciting initial requirements from input documents
- User stories and brief versions of use cases including defining project scope and work break down structure

- Refining estimates using top down, bottom-up techniques
- Risk management process basic concepts
- Contract type and managing contracts
- Communication management plan, progress reporting and project status review
- Production release management and hand over to support including project closure and review
- DMAIC approach, Lean foundations & principles, Decision Making Tools, Quality Tools, Metrics, DPMO, RTY, Cycle Time, CoQ (Six Sigma Yellow Belt Training)