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**Prescription: 652 SYSTEMS DEVELOPMENT PROJECT**


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**Elective prescription**

<b>Level</b>	6
<b>Credit</b>	20
<b>Version</b>	2
<b>Aim</b>	Students will analyse and develop a simple work group application to improve productivity in a multi-user environment, using a systems development methodology.
<b>Prerequisites</b>	Nil
<b>Recommended Prior Knowledge</b>	Recommended <i>550 Business Computing</i> or equivalent knowledge and skills. <i>650 Applied Computing</i> also covers useful underpinning skills.

**Assessment weightings**

Learning outcomes	Assessment weighting %
1. Students will explain database concepts, and principles of data modelling, process modelling and systems development project management, and apply them in designing a simple work group-based business application to meet user requirements in a multi-user environment.	50
2. Students will demonstrate an understanding of a systems development project life cycle by developing and implementing the workgroup-based business application in line with its design.	50
<b>Total</b>	<b>100</b>

All learning outcomes must be evidenced; a 10% aggregate variance is allowed.

### Assessment notes

1. Assessment materials should reflect relevant and current legislation, standards, regulations and acknowledged good industry/business practices.
2. The term 'workgroup' is defined as a single LAN-based business unit.
3. Any methodologies used should be current.
4. The project plan is dynamic and students are expected to provide evidence that the plan is being followed and continuously reviewed.
5. Each stage of the project should be evidenced by documentation consistent with industry requirements.
6. Throughout all phases of the project, students will be expected to demonstrate a high level of problem-solving skills and provide evidence of appropriate communication with stakeholders.
7. For learning outcome two, if relevant to the application being developed, students will be expected to demonstrate familiarity with the use of information technologies to facilitate business processes.

### Learning outcome one

Students will explain database concepts, and principles of data modelling, process modelling and systems development project management, and apply them in designing a simple work group-based business application to meet user requirements in a multi-user environment.

Key elements:

- a) Problem definition and project scope.
- b) Project plan:
  - tasks
  - deliverables
  - resource requirements
  - risk identification and planning.
- c) User requirements, including functional requirements in business language, and conceptual data and process modelling.
- d) Database concepts.
- e) Logical and physical database design.
- f) Data management issues, including but not limited to:
  - security
  - concurrency
  - validity
- g) Interface design:
  - basic screen flows
  - overall user interface design.

**Learning outcome two**

Students will demonstrate an understanding of a systems development project life cycle by developing and implementing the workgroup-based business application in line with its design.

Key elements:

- a) Project team establishment.
- b) System integration testing.
- c) Development and testing of application components.
- d) Application implementation:
  - testing
  - quality assurance
  - user training on-going maintenance.
- e) Post-implementation review.

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Introduced	1	2006	31 December 2014
Review	2	2014	31 December 2018