



The University of Southern Queensland

## Course specification

The current and official versions of the course specifications are available on the web at <http://www.usq.edu.au/coursespecification/current>.  
Please consult the web for updates that may occur during the year.

### Description: Project Sustainability Management

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
MGT	8021	86148	1, 2009	EXT	1.00	Toowoomba

<b>Academic group:</b>	FOBUS
<b>Academic org:</b>	FOB004
<b>Student contribution band:</b>	3A
<b>ASCED code:</b>	080399

### STAFFING

Examiner: Greg Gunter  
Moderator: Barrie Todhunter

### OTHER REQUISITES

Students are required to have access to a personal computer, e-mail capabilities and Internet access to USQConnect. Current details of computer requirements can be found at <http://www.usq.edu.au/ict/students/standards/default.htm>.

### RATIONALE

Project deliverables will not achieve their intended outcomes unless they receive support throughout their intended life span. This might be an organisational restructure, a new bridge or tunnel, a mine, a hospital, or a new aircraft. Project sustainability is the systematic process by which this logistical support is defined, designed, implemented and carried out. Decisions made during the design, development, evaluation and acceptance phases of a new project can have considerable impact on the need for subsequent logistical support (Refer ENG8111). Project sustainability has its roots in the early phases of the life cycle, and comes into force when the first project deliverable is accepted by the sponsor. Some elements of sustainability are supply, maintenance (all levels), data and configuration management, manpower, training and information technology.

### SYNOPSIS

This course focuses on the management aspects of the design and operation of logistical support systems for new projects with an emphasis on capital projects across a range of sectors. It includes both the "military" approach to logistics through the Integrated Logistics Support (ILS) methodologies (sustainment), and the traditional "business" logistics areas of inventories, warehousing and transportation. The course emphasises the life-cycle approach to sustainability. It considers how reliability, availability, maintainability factors and maturing technological concepts influence life cycle decisions and costs. The course examines elements of maintenance planning, supply support, manpower and personnel, training and training devices, technical data, facilities, packaging, handling, storage and transport, support and test equipment, computing support, and logistics operations and coordination. It also considers related topics on logistic support analysis

(LSA), modelling and simulation and the practice of sustainability management in both private and public enterprises.

## OBJECTIVES

The main objective of the course is to enable the student to manage, or interact with the person who is managing, the sustainability of a complex project deliverable into operational service and throughout its operational life span. The course objectives define the student learning outcomes for a course. The assessment item/s that may be used to assess student achievement of an objective is/are shown in parentheses after each objective. On successful completion of this course, students should be able to:

1. identify the range of sustainability issues that apply to respective project types across their whole of life, and to give consideration to those issues when managing all aspects of the project life cycle (Assignment 1, Assignment 2)
2. identify and give due consideration to the value chain processes across the project life cycle for respective project types (Assignment 1, Assignment 2)
3. integrate sustainability considerations into traditional project management processes for delivery of project outcomes (Assignment 1, Assignment 2)
4. identify the total life cycle of respective projects and its implication for considerations of project sustainability (Assignment 1, Assignment 2)
5. understand the broad differences in project sustainability of different types of projects and to incorporate sustainability issues into the management of a project in a relevant sector (Assignment 1, Assignment 2)
6. identify the program support elements of a major project deliverable (Assignment 1, Assignment 2)
7. carry out a detailed financial study to examine sustainability considerations and options for a project in a chosen sector (Assignment 1, Assignment 2)
8. identify the major project elements, the relationships between them, and manage the way in which they are configured during the design and delivery phases of the project (Assignment 1, Assignment 2)
9. identify the sustainability issues to be considered at the design, documentation and procurement stages and to incorporate appropriate conditions into procurement processes (Assignment 1, Assignment 2)
10. identify the sustainability issues to be considered during the contract management and delivery stages of the project (Assignment 1, Assignment 2)
11. identify the life cycle of the project following delivery and design an appropriate sustainability program for the periodic upgrade to counter obsolescence, loss of capability, reduction in performance and asset value (Assignment 1, Assignment 2)
12. identify and plan for the final stages of the project deliverable life cycle by means of abandonment or disposal (Assignment 1, Assignment 2).

## TOPICS

	Description	Weighting (%)
1.	Introduction to sustainability	5.00
2.	The project value chain	5.00
3.	Project management for sustainability	10.00
4.	Operational life span of project deliverable	10.00

5.	Sustainment of projects in various sectors	10.00
6.	Program support elements	10.00
7.	Life cycle costing for project sustainability	10.00
8.	Configuration management	10.00
9.	Procurement for project sustainability	10.00
10.	Contract management for sustainability	10.00
11.	Project obsolescence and upgrades	5.00
12.	Project disposal and abandonment	5.00

### **TEXT and MATERIALS required to be PURCHASED or ACCESSED**

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

Blanchard, BS 2004, *Logistics engineering and management*, 6th edn, Pearson Prentice-Hall, Upper Saddle River, New Jersey.

Summers, J & Smith, B 2006, *Communication skills handbook: how to succeed in written and oral communication*, 2nd edn, John Wiley & Sons, Milton, Queensland.

### **REFERENCE MATERIALS**

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

Ballou, RH 2004, *Business logistics management: planning, organizing, and controlling the supply chain*, 5th edn, Prentice Hall, Upper Saddle River, New Jersey.

Finkelstein, W & Guertin, JAR 1988, *Integrated logistic support: the design engineering link*, IFS Publications, Kempston, Bedford.

Hutchinson, NE 1987, *An integrated approach to logistics management*, Prentice Hall, Englewood Cliffs, New Jersey.

Jones, JV 1995, *Integrated logistics support handbook*, 2nd edn, McGraw-Hill, New York.

### **STUDENT WORKLOAD REQUIREMENTS**

ACTIVITY	HOURS
Assessments	50.00
Directed Study	60.00
Private Study	50.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT 1	100.00	30.00	06 Apr 2009
ASSIGNMENT 2	100.00	70.00	09 Jun 2009

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:**  
If you are an international student in Australia, you are advised to attend all classes at your campus. For all other students, there are no attendance requirements for this course. However, it is the students' responsibility to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
- 2 Requirements for students to complete each assessment item satisfactorily:**  
To satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks. (Depending upon the requirements in Statement 4 below, students may not have to satisfactorily complete each assessment item to receive a passing grade in this course.)
- 3 Penalties for late submission of required work:**  
If students submit assignments after the due date without prior approval of the examiner, then a penalty of 5% of the total marks gained by the student for the assignment may apply for each working day late up to ten working days at which time a mark of zero may be recorded. See Assessment Notes item 1 below.
- 4 Requirements for student to be awarded a passing grade in the course:**  
To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.
- 5 Method used to combine assessment results to attain final grade:**  
The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items in the course.
- 6 Examination information:**  
There is no examination in this course.
- 7 Examination period when Deferred/Supplementary examinations will be held:**  
Not applicable.
- 8 University Regulations:**  
Students should read USQ Regulations 5.1 Definitions, 5.6 Assessment, and 5.10 Student Academic Misconduct for further information and to avoid actions which might contravene university regulations. These regulations can be found at <http://www.usq.edu.au/corporateservices/calendar/part5.htm>. Students should also read the Faculty of Business Policies and Procedures which can be found at <http://www.usq.edu.au/business/aboutfob.htm>.

## ASSESSMENT NOTES

- 1 Assignments:** (i) Assignments must be submitted electronically by 11.59pm (AEST) on the due date. (ii) Students must retain a copy of each assignment submitted for assessment. This must be produced within 24 hours if required by the examiner. (iii) The examiner may grant an extension of the due date of an assignment in extenuating circumstances. If

the required extension is less than seven days, there is no need to obtain prior approval. In such cases, submit your assignment as soon as possible after the due date together with any supporting documentation that might be required. The authority for granting extensions rests with the relevant examiner. (iv) The examiner will normally only accept assessments that have been prepared using electronic media. (v) The examiner will not accept submission of assignments by facsimile. (vi) Students who are disadvantaged by these regulations may be given special consideration. They should contact the examiner to negotiate such special arrangements. (vii) In the event that a due date for an assignment falls on a local public holiday in their area, such as a show holiday, the due date for the assignment will be the next day. Students are to note on the assignment cover the date of the public holiday for the examiner's convenience.

- 2 Referencing in assignments: Harvard (AGPS) is the referencing system required in this course. Students should use Harvard (AGPS) style in their assignments to format details of the information sources they have cited in their work. The USQ library provides advice on how to format information sources using this system. Details can be found at [http://www.usq.edu.au/library/help/ehelp/ref\\_guides/harvard.htm](http://www.usq.edu.au/library/help/ehelp/ref_guides/harvard.htm) and [http://www.usq.edu.au/library/help/ehelp/ref\\_guides/harvardonline.htm](http://www.usq.edu.au/library/help/ehelp/ref_guides/harvardonline.htm).
- 3 Deferred work: Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. The temporary grade IDM (Incomplete Deferred Make-up) may be awarded.
- 4 Make-up work: Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non directed personal study.

## **OTHER REQUIREMENTS**

- 1 Computer, e-mail and Internet access: Students are required to have access to a personal computer, e-mail capabilities and Internet access to USQConnect. Current details of computer requirements can be found at <http://www.usq.edu.au/ict/students/standards/default.htm>.
-