

Liverpool John Moores University

Title: INTEGRATED LOGISTIC SUPPORT
Status: Definitive
Code: **6510ENGHAL** (106691)
Version Start Date: 01-08-2016

Owning School/Faculty: Maritime and Mechanical Engineering
Teaching School/Faculty: Riverside College

Team	Leader
Russell English	Y

Academic Level: FHEQ6
Credit Value: 12
Total Delivered Hours: 26
Total Learning Hours: 120
Private Study: 94

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	18
Tutorial	6

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	70	2
Essay	AS2	Coursework	30	

Aims

To develop the students knowledge and understanding of the principles and applications of integrated logistic support.

Learning Outcomes

After completing the module the student should be able to:

- 1 explain the key elements of logistic support analysis ; influence for supportability ; identify supportability problems and cost drivers early, identify and develop logistic support resources and develop a single logistic database
- 2 discuss key factors of implementing an integrated logistic support programme (ILSP) and produce a work breakdown structure for the tasks required to achieve this
- 3 develop an ILSP and discuss the requirements of a ILSP plan
- 4 use techniques to monitor the ILSP and use a system of quality assurance
- 5 employ risk management techniques and recommend mitigating measures against an ILSP.
- 6 explain the cost breakdown of the various support elements and how they build into the total lifecycle cost for the ILSP and what trade offs are available to minimise these costs

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

EXAM	1	2	3	4	5	6
CW	1	2	3	4		

Outline Syllabus

Integrated Logistic Support : support related products and services

Work breakdown structures : structured representation of all tasks required to achieve ILS.

Organisation : ILS management organisation including key roles and responsibilities.

Programme : development of ILSP including dependencies and constraints of all stakeholders.

Monitoring : checking of activities and outcomes to ensure programme success.

Quality : ILS environment quality assurance.

Risk management : techniques to identify, manage and mitigate risks.

Cost : major cost drivers and how they contribute to the total life cycle cost.

Learning Activities

Lectures, tutorials, case studies, directed self-study reading/exercises

Notes

On today's aircraft programmes supportability has to be given equal priority during all phases with development and production, with a primary factor being to ensure that design is influenced for high reliability, maintainability and testability, and to ensure that the overall weapon system life cycle cost over the active service life is minimised. In order to meet the above objectives the concept of integrated logistic

support is required.

This module provides students with an essential understanding of ILS requirements, the influence and impact the design and manufacturing phases have on the in-service operational capability and the total life cycle cost.