Liverpool John Moores University

Title: RAIL INDUSTRY HAZARDS AND RISKS

Status: Definitive

Code: **7510RSKDL** (118769)

Version Start Date: 01-08-2016

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

Team	Leader
Zaili Yang	Υ

Academic Credit Total

Level: FHEQ7 Value: 10 Delivered 16.5

Hours:

Total Private

Learning 100 **Study:** 83.5

Hours:

Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours	
Lecture	8	
Online	.5	
Tutorial	8	

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	Essay		95	
Reflection	Test&refl		5	

Aims

To provide an overview of rail industry infrastructure, operations and activities and the typical hazards associated with this industry.

To provide an understanding of the role of risk management through the rail project lifecycle.

Learning Outcomes

After completing the module the student should be able to:

- Apply knowledge of the principal types of infrastructure, operations and activities which exist within the rail industry
- 2 Evaluate typical rail industry project phases and hazard sources
- 3 Interpret the standard means of avoiding or mitigating those hazards

Learning Outcomes of Assessments

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

Essay 1 2

Online test and Reflection 3

Outline Syllabus

Rail industry sources of risk:

- Collisions between trains
- Collisions of trains with objects
- Derailment
- Fires
- Explosion
- Flood
- · Slips, trips, falls
- Hit by train
- Electricity
- Structural

Regulatory regimes

Why include risk management within a project?

Typical phases of a project and opportunities for risk reduction

Overview of Risk Assessment Tools and Techniques (more detail in Hazard Identification and Hazard Assessment modules)

Risk management objectives and methods for each project phase

Learning Activities

A combination of slides and notes, exercises, discussions, interactive web activities and supported self study.

Notes

The purpose of this module is to provide an overview of rail industry infrastructure,

operations and activities and the typical hazards associated with this industry. The module aims to provide an understanding of the role of risk management through the rail project lifecycle.

This involves studying the different sources of risk in the rail industry, the regulatory regimes of the industry, the typical phases of a project and opportunities for risk reduction within each of the phases.

The assessment for this module is an essay combined with online activities (e.g. tests, discussions, etc.).