Liverpool John Moores University

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Title:	BOWTIE ANALYSIS	
Status:	Definitive	
Code:	7518ENGRSK (113883)	
Version Start Date:	01-08-2019	
Owning School/Faculty:	Maritime and Mechanical Engineering	
Teaching School/Faculty:	Risktec Solutions	

Team	Leader
Alan Wall	Y

Academic Level:	FHEQ7	Credit Value:	10	Total Delivered Hours:	16
Total Learning Hours:	100	Private Study:	84		

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	6
Tutorial	10

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Coursework Case Study Approx 2000-3000 words	100	

Aims

To provide an introduction to bow-tie methodology, its practical uses and benefits, with hands-on practice at using the technique.

Learning Outcomes

After completing the module the student should be able to:

- 1 Deconstruct the various components of a bowtie diagram
- 2 Analyse hazard scenarios by applying the bowtie method and designing a bowtie diagram
- 3 Design HSE critical tasks to support the bowtie diagram

Learning Outcomes of Assessments

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

case study 1 2 3

Outline Syllabus

- •Introduction to risk assessment and bowtie theory
- •The bowtie method how to build a bowtie
- •HSE-critical activities and tasks
- •HSE-critical elements
- •Acceptance criteria and ALARP
- •Practical uses of bowties
- •Bowtie software tools

Learning Activities

A combination of lectures and group exercises.

Notes

The purpose of this module is to provide an introduction to bow-tie methodology, its practical uses and benefits, with hands-on practice at applying the technique.

The assessment for this module is coursework.