

Introduction to System Safety

9am

5pm

Day	Session 1	Session 2	Session 3		Session 4	Session 5	Session 6	
Mon	Course Overview Introduction to System Safety Engineering	Terminology / Definitions <ul style="list-style-type: none"> Accident, Hazard Failure Life cycle System Safety Standards 	Preliminary Hazard Identification		Case Study: AGV PHI	Legal framework and Management Responsibilities <ul style="list-style-type: none"> UK Legal framework Applicability of laws Company response 	Case Study: Piper Alpha Video and Exercise	
Tue	Modelling Event Sequences <ul style="list-style-type: none"> Event Trees 	Case Study: Event sequences	Basic Risk Concepts <ul style="list-style-type: none"> Probability / Severity Risk acceptance Risk reduction ALARP GAMAB 	L U N	Case Study: Aircraft Risk Assessment	Hazard Analysis <ul style="list-style-type: none"> Purpose FFA overview HAZOP overview Getting Value from Hazard Analysis 	Case Study: FFA	
Wed	Safety Case Development 1 <ul style="list-style-type: none"> Purpose Argument and Evidence Safety Case Contents Safety Case Development Process 	Case Study: Safety case outline	Safety Case Development 2 Phased Safety Case Construction	C H	FMEA	Fault Tree Analysis 1 <ul style="list-style-type: none"> Fault Tree Construction 	Case Study: AGV Fault Tree	
Thu	Fault Tree Analysis 2 <ul style="list-style-type: none"> Analysis and Quantification 	Case Study: Mine Fault Tree	Preliminary System Safety Assessment		Systematic Failure	Safety Integrity Levels	Case Study Systematic failure and SILs	Common Cause, ZHA and other safety assessment techniques
Fri	SMS & ISA <ul style="list-style-type: none"> Purpose Approach Skills 	Human Factors Overview	Introduction to Software Safety Issues		Conclusions			