

RiskSpectrum® PSA Advanced Training Course

Agenda 2015

This document includes the agenda for a four days RiskSpectrum PSA Advanced Training Course organised by Lloyd's Register Consulting.

This course has additional time allocated for discussions and participants are encouraged to send questions ahead of time so that these can be addressed by the tutor during the course.

Each day starts at 9:00. When each day will finish is very much dependent on the number of questions raised during the discussions and presentations. The time for finish included in the agenda is the latest hour when the training finishes.

Day 1

9:00 – Lunch		RiskSpectrum Advanced Training	
Subject	Activity	Duration (hours)	
Introduction	Presentation	1	
How to use the RiskSpectrum Software Suite:	Presentation		
RiskSpectrum PSA			
RiskSpectrum HRA			
RiskSpectrum FMEA			
RiskSpectrum Doc			
RiskSpectrum RiskWatcher			
R-DAT			
Basic PSA functions – repetition	Presentation	1	

Lunch - 16:00		RiskSpectrum PSA Advanced Training	
Subject	Activity	Duration (hours)	
Data management – Advanced use	Pres. + Exercise	1½	
Model Editing			
Finding and Extracting Information			
Cut-Set Tracing	Pres. + Exercise	1	
Time for discussions	Discussion	½	

Day 2

9:00 – Lunch RiskSpectrum PSA Advanced Training

Subject	Activity	Duration (hours)
Branch Point Alternatives – Advanced topics	Pres. + Exercise	1
Inheritance of BC Sets between linked Event Trees	Pres. + Exercise	1
Export and Import	Pres. + Exercise	1
Export and import data using RiskSpectrum internal binary format, ASCII, MS Excel format		

Lunch - 16:00 RiskSpectrum PSA Advanced Training

Subject	Activity	Duration (hours)
RSAT Settings	Pres.	½
NOT-logic	Pres. + Exercise	2
Qualitative and quantitative treatment of XOR, NOR, and NAND-gate		
When to use Ignore ET Success, Logical ET Success, Logical and Simple Quant		
Quantification of MCS lists		½
Mean, time dependent, uncertainty Importance measures		

Day 3

9:00 – Lunch RiskSpectrum PSA Advanced Training

Subject	Activity	Duration (hours)
CCF		½
	Methods, staggered, non-staggered, time-dependent	
Quantification efficiency		½
	How does an MCS algorithm operate, what drives complexity, cut off, examples	
MCS Editor & MCS Post Processing	Pres. + Exercise	1
Enhanced BE modelling	Pres. + Exercise	½
	Mutual Exclusivity	
	BE-BE relations	
Improvements in analysis	Pres. + exercise	½
	Uncertainty analysis	
	Multidimensional BC-set	
	Trapezoid uncertainty distr.	

Lunch - 16:00 RiskSpectrum PSA Advanced Training

Subject	Activity	Duration (hours)
Improvements in analysis, cont	Pres. + exercise	3
	Uncertainty analysis	
	Multidimensional BC-set	
	Trapezoid uncertainty distr.	

Day 4

9:00 – Lunch RiskSpectrum PSA Advanced Training

Subject	Activity	Duration (hours)
C-BDD Solution Engine (CutSet Binary Decision Diagram)		1
Problem identification and resolving	Exercise	1
Simple case study summarizing training course	Exercise	1

Lunch - 16:00 RiskSpectrum PSA Advanced Training

Subject	Activity	Duration (hours)
Simple case study, cont	Exercise	2
Time for discussions	Discussion	1