

RISKSPECTRUM® PSA ADVANCED TRAINING COURSE - AGENDA 2018

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

The RiskSpectrum PSA Advanced Training 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. This is the agenda for 4 days RiskSpectrum PSA training course.

PREREQUISITES

The RiskSpectrum PSA Advanced Training Course requires that the participants has either followed the Basic RiskSpectrum FTA and RiskSpectrum PSA Training Course or has extensive knowledge of using RiskSpectrum PSA.

Agenda

Day 1

9:00 – Lunch

RiskSpectrum PSA/FTA Training

Subject	Activity	Duration (h)
Introduction	Presentation	½
How to use the RiskSpectrum Software Suite: RiskSpectrum PSA RiskSpectrum HRA RiskSpectrum FMEA RiskSpectrum Doc RiskSpectrum RiskWatcher R-DAT	Presentation	1
Basic PSA functions – repetition	Presentation	1

Lunch - 16:00

RiskSpectrum PSA/FTA Training

Subject	Activity	Duration (h)
Data management – Advanced use Model Editing Finding and Extracting Information	Presentation & Exercise	1½
Cut-Set Tracing	Presentation & Exercise	1
Time for discussions	Discussion	½

Day 2

9:00 – Lunch RiskSpectrum PSA/FTA Training

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

Lunch - 17:00 RiskSpectrum PSA/FTA Training

Subject	Activity	Duration (h)
RSAT Settings	Presentation	½
NOT-logic Qualitative and quantitative treatment of XOR, NOR, and NAND-gate When to use Ignore ET Success, Logical ET Success, Logical and Simple Quant	Presentation & Exercise	2
Quantification of MCS lists Mean, time dependent, uncertainty Importance measures	Presentation & Exercise	½
CCF Methods, staggered, non-staggered, time-dependent	Presentation	½
Time for discussions	Discussion	½

Day 3

9:00 – Lunch RiskSpectrum PSA/FTA Training

Subject	Activity	Duration (h)
Quantification efficiency How does an MCS algorithm operate, what drives complexity, cut off, examples	Presentation	½
MCS Editor & MCS Post Processing	Presentation & Exercise	1
Enhanced BE modelling Mutual Exclusivity BE-BE relations	Presentation & Exercise	½
Improvements in analysis Uncertainty analysis Multidimensional BC-set Trapezoid uncertainty distr.	Presentation & Exercise	1

Lunch - 17:00 RiskSpectrum PSA/FTA Training

Subject	Activity	Duration (h)
Improvements in analysis, cont	Presentation & Exercise	2½
Time for discussions	Discussion	½

Day 4

9:00 – Lunch

RiskSpectrum PSA/FTA Training

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

Lunch - 15:00

RiskSpectrum PSA/FTA Training

Subject	Activity	Duration (h)
Simple case study,cont	Exercise	2
Time for discussions	Discussion	½