



SMS Recurrent Training - Syllabus

Syllabus

SMS Recurrent Training (2 days)

Safety compliance.

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1 Day 1

1.1 Module 01: SMS Background		
Objectives	Contents of Module	Practical Training/Discussion
<p>Objective 1: Refresh your knowledge related to the implementation of a Safety Management System.</p> <p>Objective 2: Review the function of components and elements of a SMS</p>	<ul style="list-style-type: none"> • What is an SMS? • Why we need it? • Main components & elements of an SMS 	

1.2 Module 02: What means measuring?		
Objectives	Contents of Module	Practical Training/Discussion
<p>Objective 3: Understand the importance of identifying measurable specifications within a SMS</p> <p>Objective 4: Get familiar and resolve quantitative Fermi's problems</p>	<ul style="list-style-type: none"> • Introduction to Measurement • Fermi problems • Estimates to solve Fermi problems • How to measure anything 	<p>How to measure the circumference of the Earth?</p> <p>How many aeroplanes are flying over the US?</p>

1.3 Module 03: Measuring Safety & Reporting Culture		
Objectives	Contents of Module	Practical Training/Discussion
<p>Objective 5: Define the meaning of Safety Culture</p> <p>Objective 6: Learn how to assess and improve safety culture</p> <p>Objective 7: Get familiar with the safety culture maturity levels</p>	<ul style="list-style-type: none"> • What is a culture? • What is safety culture • Safety culture maturity levels • Measuring maturity of an organizational safety culture 	

2 Day 2

2.1 Module 04: Managing risks through leading & lagging safety indicators		
Objectives	Contents of Module	Practical Training/Discussion
<p>Objective 8: Understand the need for safety performance indicators</p> <p>Objective 9: Understand how to establish an SPI program</p>	<ul style="list-style-type: none"> • What means safety performance measurement? • Possible types of measurement • How to establish an SPI program • SPIs implementation strategy 	

2.2 Module 05: Defining a model for experts' judgement		
Objectives	Contents of Module	Practical Training/Discussion
<p>Objective 10: Understand how to deal with experts' judgements</p> <p>Objective 11: Understand how to best utilize experts' knowledge</p>	<p>1. Are risks management methods working?</p> <ul style="list-style-type: none"> • Expert intention • Expert audit • Simple stratification methods • Weighted scores • Calculus of preferences • Probabilistic models <p>2. Units of experts' knowledge</p> <ul style="list-style-type: none"> • The peak end rule • The weather forecast issues • The conjunction fallacy • Belief in the law of small numbers • Disregarding variance in small samples • Insensitivity to prior probabilities • Causes and consequences of overconfidence 	

2.3 Module 06: What's wrong with risk matrices?		
Objectives	Contents of module	Practical Training/Discussion
Objective 12: Understand the structure of risk matrices	<ul style="list-style-type: none"> • Risk matrices • Misrankings and risk matrices • How should a risk matrix be? • Consistent colouring for risk matrices • Preference Axioms 	Define a risk matrix compliant with Cox theorem