MAKING COMPLEX EASY

PROBLEMS THAT MATTER — We solve

CONFIDENTLY PRAGMATIC — We are

EASY TO CONNECT — We make it

STRONGER TOGETHER — We are

ABSOLUTE DELIVERY

Corrosion → Leak → Explosion

Course Outline BowTieXP

(Duration: 2 Days)
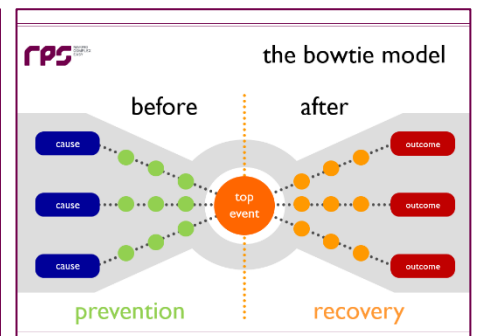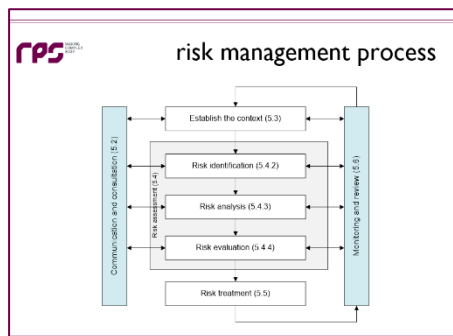
Course Pre-requisites

Attendees are required to have a sound understanding of the fundamentals of risk management and risk management processes. Attendees will also have basic computer skills and knowledge of Microsoft office products.

Course Overview Day 1

Introduction to Risk Management and BowTieXP Theory

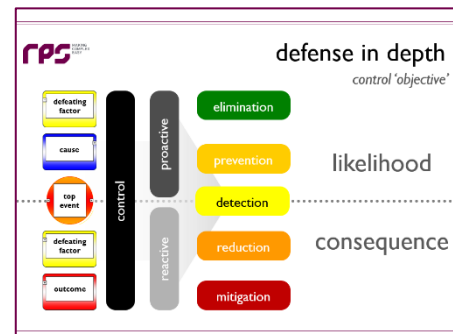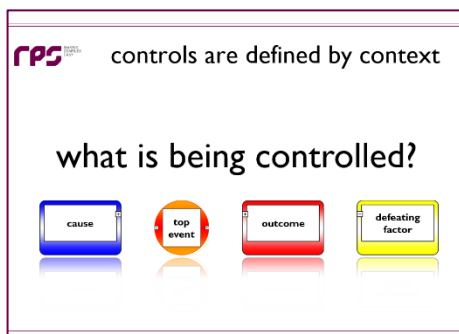- Risk Management Principles
- BowTieXP Methodology Theory

The program begins with the review of the risk management process that underpins the approach to qualitative risk management. The course branches out into a detailed explanation of how to apply the BowTieXP risk management methodology, to the analysis of major hazards and unwanted events. A practical approach is adopted throughout the presentation and is based on significant industry experience.

ISO 31000:2018

risk management process

Establish the context (5.3)

Risk identification (5.4.2)

Risk analysis (5.4.3)

Risk evaluation (5.4.4)

Risk treatment (5.5)

Communication and consultation (5.2)

Risk assessment (5.4)

Monitoring and review (5.6)

the bowtie model

before — after

cause → top event → outcome
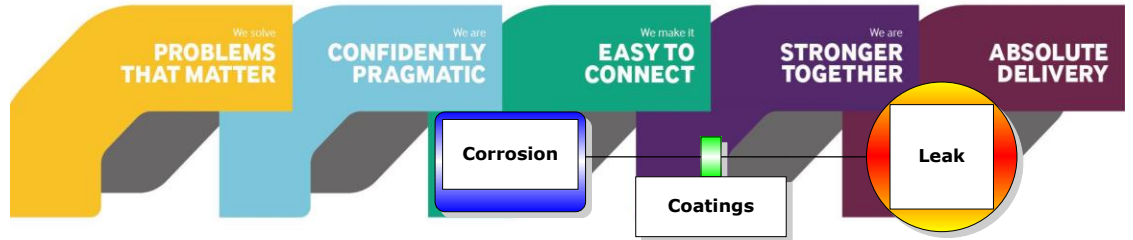
prevention — recovery

BowTieXP Risk Management Software Application

- BowTieXP software introduction
- BowTieXP software demonstration
- BowTieXP learning exercises

The methodology is applied using the BowTieXP software to expedite learning by creating simple Bowties using all of the Bowtie elements and navigating through the software considering various practical scenarios. This session addresses the best practices for using the software in a corporate learning environment and to use its powerful features to create risk assessments in preventing and minimising exposure to unwanted events in the workplace.

controls are defined by context

what is being controlled?

cause — top event — outcome — defeating factor

defense in depth
control 'objective'

defeating factor / cause / top event / defeating factor / outcome

control — proactive — reactive

elimination / prevention / detection / reduction / mitigation

likelihood — consequence

qualitative control effectiveness

Rating	Availability	Reliability	Human Factor	
++	In place and used all of the time	Very reliable (100%)	No human involvement, simple instructions, easy to operate, intuitive, proven operator performance. Error practically impossible.	Very effective
+	In place and used most of the time (approx. > 90%)	Reliable (> 95% but < 100%)	Clearly defined task, defined operating procedures, person is trained and experienced. Error conceivable but very unlikely.	Effective
0	In place and used some of the time (approx. > 75% but < 90%)	Fairly reliable (> 75% but < 95%)	Operating under stress, multi-tasking, complex procedures, difficult to operate, person is trained but errors considered possible.	Fairly effective
-	Not permanently in place and used infrequently (approx. < 50%)	Unreliable (> 50% but < 75%)	Operating under high stress, complex or unclear procedures, inadequate training. Errors considered quite possible.	Ineffective
--	Not in place and never used	Very unreliable (< 50%)	Personnel unfamiliar with the task, very complex procedures, no operator training. Errors can be expected or emergency situation.	Very ineffective
?	Unknown	Unknown	Unknown	Unknown

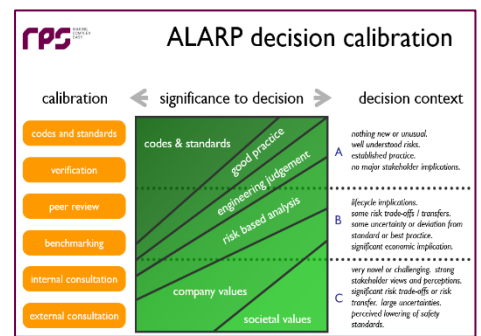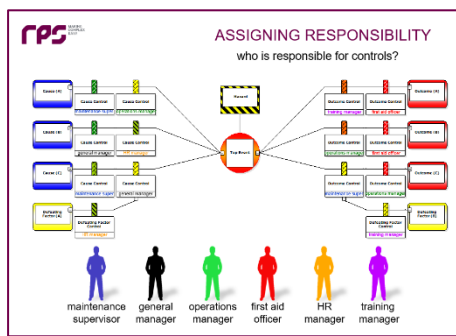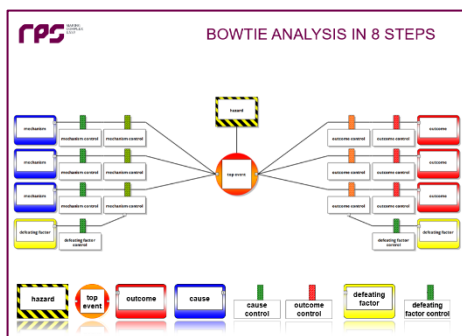Corrosion

Coatings

Leak

Course Overview Day 2:

BowTieXP Risk Management Software and Workshop

- BowTieXP advanced features for analysis
- BowTieXP case study

Day 2 begins with various navigation techniques, software demonstration of the advanced features of the software, hands-on exercises and case studies. The hands-on exercises provide a good insight into the capabilities of the software for reporting and risk analysis. By the end of Day-2 participants will be prepared to apply the BowTieXP management software in their workplace.

Learning Outcomes

- Identify how and where bowtie analysis fits into existing risk management practices
- Use bowtie analysis for risk assessments
- Apply the BowTieXP software to implement bowtie analysis

Who should attend?

Risk Engineers, Risk Managers, Auditors, Supervisors, Managers, Safety Professionals and leaders responsible for managing risk activities.

BowTieXP Software

Attendees get free access to the BowTieXP software for two months and a Certificate of Attendance.

Course Dates

Visit our web page for training schedule and events

Tailored in-house / custom courses

In-house custom courses can also be delivered on demand at your location of choice we have global reach.

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EASY TO CONNECT — We make it
STRONGER TOGETHER — We are
ABSOLUTE DELIVERY

about us

global advisory and consultancy

6 Continents

250 Diverse services

5600 Talented people

125 Countries

A BRAND BUILT ON PURPOSE

In a complex world, we create shared value by solving problems that matter to a growing, urbanising and resource-scarce world

OFFICE LOCATIONS

UNITED STATES		UNITED KINGDOM				THE NETHERLANDS	RUSSIA		NEW ZEALAND
Atlanta	Plano	Aberdeen	Cambridge	Irlam	Southampton	Amsterdam	Sekhalin		Wellington
Austin	Round Rock	Abingdon	Cardiff	Kirkintilloch	Stafford	Breda			
Beaumont	San Antonio	Alton	Chepstow	Leeds	Warrington	Delft	AUSTRALIA		INDONESIA
Boston	Seattle	Albourne	Cheltenham	London	Cumbria	Leerdam	Adelaide		Jakarta
Charleston	South Kingstown	Axminster	Clevedon	London Wall	Woking	Zwolle	Brisbane		
Chicago		Bedford	Derby	Manchester	Wolverhampton		Cairns		MALAYSIA
Corpus Christi	CANADA	Belfast	Dorchester	Middleton		NORWAY	Canberra		Kuala Lumpur
Dallas	Calgary	Birmingham	Edinburgh	Milton Keynes	IRELAND	Alesund	Darwin		
Houston		Brentford	Ellesmere Port	Newark	Cork	Kristiansand	Gold Coast		PAPUA NEW GUINEA
Irvine		Bournemouth	Exeter	Newcastle	Dublin	Oslo	Ipswich		Port Moresby
Mountain View		Brighton	Glasgow	Northwich	Galway	Stavanger	Mackay		
Oakland		Bristol	Grangemouth	Nottingham	Letterkenny	Trondheim			
			Huddersfield	Sheffield	Sligo				

Margaret River
Melbourne
Newcastle
Perth
Port Douglas
Sunshine Coast
Sydney
Townsville
Whitsundays
Wollongong