

RISKmap offers new thinking about risk, advanced risk tools and techniques to do just that.

RISKmap interventions are focused on the risk culture, risk behavior and risk optimization. It is focused on RISK in the business. Our interventions have been developed by psychologists, safety professionals, industry experts and academia -combining the real world and advanced thinking from research. We offer an impeccable track record in our field.

Our clients include BHPBilliton, Anglo American, De Beers, Kinross, Southern Company, Boeing and many more.

We take you towards the key factors in risk: Competence Cognition and Control.

riskSYSTEM riskDELTA safeSENTRY riskSIXEYE Rapid Risk Reduction (R3) riskMANAGER riskMETRICS X-RAY

risk**SYSTEM**RISK MANAGEMENT SYSTEM

A RISK MANAGEMENT FRAMEWORK, BASED ON OSHAS 18000 AND ISO 31000 - DESIGNED TO BE A FLEXIBLE YET COMPREHENSIVE RISK MANAGEMENT SYSTEM.

Key Focus Areas:

Serious Injury, Fatal and Catastrophic risks Critical Risk Control Change management Incident Analysis Support Programs

Program Outline:

- The program is deployed through a series of phases and steps, comprising:
 - Step 1: Company overview
 - Step 2: Gap analysis
 - Step 3: System targeting
 - Step 4: System development
 - Step 5: Standards development
 - Step 6: Deployment



DEEP eLIMINATION OF IATENT tRIGGERS OF aCCIDENTS

DESIGNED TO TEST AND VALIDATE THE INTEGRITY FATAL RISK CONTROL.

Key Focus Areas:

Advanced risk control system

Dynamic control of randomness

Rapid risk reduction technieques

Delegated roles for controls

Competencies of champions:

- ▶ Advanced capabilities in risk controls
- ▶ Focus on SIFC risks
- Establish core teams to address dynamic risks
- ▶ Key roles in mitigation of risks
- ▶ Transparency on risks
- Random control of risks



Rapid Risk Reduction (R³) MITIGATING RISK AT THE SHOP FLOOR

RISK MANAGEMENT SYSTEMS THAT QUICKLY, RANDOMLY AND CONTINUOUSLY CAPTURE AND EVALUATE RISK WHERE IT HAPPENS: THE SHOP FLOOR - AND ENABLE RAPID RISK REDUCTIONS.

Key Focus Areas:

Routine risks
Serious Injury risks
Continuous risk reviews
Random risk controls
Team risk skills

Program Outline:

- Design, deploy pilot processes
- ► Train risk observers
- Design routine risk system
- Design serious injury risk system
- ▶ Deploy SIXeye risk reviews
- Deploy risk sentry systems
- ▶ Train riskSWAT teams

X-RAY CRITICAL RISK AND INCIDENT ANALYSIS

THE ANALYSIS OF SERIOUS INCIDENTS IN THE WORKPLACE THROUGH TECHNIQUES OF MULTIPLE CAUSE ANALYSIS.

Key Focus Areas:

Information collation Key factor identification Critical contributory factor analysis "Cross X" Value analysis "Z-Grid" profiling Mitigation strategies

Content:

Course material covers the following;

- ► Concerns/current deficiencies
- ▶ Multiple cause analysis defined
- ▶ Gathering/organizing information
- Identify and analyze the hazards
- Identify and analyze the barriersIdentify and analyze the factors
- Corrective and preventive measures
- Report writing







safe**SENTRY**

SAFETY LEADERSHIP AT THE FRONT-LINE

IDENTIFYING DYNAMIC FATAL RISKS AND CREATING LEADERS IN THE FRONT-LINE.

Culture Types Profile:

Fatal risks
Critical controls
Risk skills development
Risk mitigation

Survey Process:

- Identifying fatal risks
- Analyzing catastrophic potential
- Verifying critical control effectiveness
- ▶ Effective leadership in the teams
- Active participation in safety
- Risk communication and transparency
- Predictive safety metrics



ANALYSIS OF CRITICAL RISKS

TO INSTALL AND MAINTAIN A CHANGE PROCESS FOR SITES/DIVISIONS TO IDENTIFY CRITICAL RISKS (WITH SERIOUS INJURY, FATAL & CATASTROPHIC POTENTIAL).

Program Outline:

Key Focus Areas:

Critical risks Leadership Balance Competence Analytics Systems Processes

s ▶ Site/departme

- Site/department conducts self analysis (SWOT)
- ▶ Review site safety materials
- Deploy review program over 3 days
- Present a Review Report to the site management team
- Present an action Plan by the local site management, to the senior executive of that organization
- A safety system optimization process conducted by an external facilitator
- ▶ Follow-up analytics



riskMANAGER MANAGING AND MITIGATING RISK

TRAINING IN RISK MANAGEMENT SKILLS, FOR MANAGERS AND SUPERVISORS, ENABLING A PROACTIVE FOCUS ON RISK IN THE BUSINESS.

Key Focus Areas:

Serious, Fatal and Catastrophic risks Risk recognition Risk dynamics Risk analysis (Bowtie) Risk critical controls Risk competency Rapid risk reduction

Skills and Competencies:

- Risk recognition skills
- Risk analysis skills
- Dynamic risk evaluation techniques
- ▶ Rapid risk reduction
- ▶ Human factors in risk management
- ▶ Risk behavior management
- Risk attitudes and perceptions
- Innovation skills



riskMETRICS MEASURE SAFETY PERFORMANCE AND ASSESS PROGRESS

MEASURE SAFETY PERFORMANCE 'BEYOND' ZERO.

Key Focus Areas:

Analysis of latent risks Measuring 'chronic unease'

Upstream indicators Link with culture assessments

Premise and approach:

- Measuring safety as the 'readiness to respond to risk'
- On-line pulse survey that measures risk trends
- Identify gaps in safety focus
- Maintain control over dynamic risk exposures









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