Applying the Bowtie Methodology to Assess EHS&S and Business Risks

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Getting to Know You...

1. Audit against regulatory requirements?
2. Utilize a risk management process for EHS?
3. Create a risk register?
4. Rank your risks by plotting on a matrix?
5. Conduct risk assessments?
6. What process or tools do you use to assess risks?
7. Process thorough?
8. Process effective?
9. Utilize Bowties? What’s a bowtie??
10. If yes, for what types of risks?
What is a Bowtie?

• Documented since 1979, and used formally after the Shell/Piper Alpha incident in 1988...
• Shape resembles a men’s bowtie.
• Can be used to help assess ANY type of risk!
• Comprehensive risk evaluation method used to:
  • Understand and communicate risks and their barriers
  • Prioritize and resource action plans
  • Reduce risks
  • Continuously improve
  • Plan for the long term
Bowtie Model & Definitions

TIPS:
- Keep It Simple
- Do not omit a barrier if it is not in place.
- Apply learnings, findings, etc. for CI
Exercise: Build a Bowtie

Develop Template:
1. Hazard
2. Risk Event
3. Causes
4. Prevention Barriers
5. Consequences
6. Mitigation Barriers

NOW WHAT??
Resources

• For questions related to this presentation, or guidance on how to improve your risk reduction approach please contact Tabitha Laser
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• Bowtie XP Software: http://www.cgerisk.com/software/risk-assessment/bowtiexp

• CGE Risk Management Solutions, The History of Bowtie

Questions?