BowTieXP® Software

Boots & Coots uses a Risk Assessment Software, a recently released system, which applies the latest concepts in risk management to the widely accepted and proven BowTie methodology. It supports and extends the AS/NZS 4360 Risk Management standard currently accepted as the world premier risk management standard. In addition, the new IADC HSE Case Guidelines for drilling operations edition of BowTieXP® software was released together with the official publication of the new global IADC HSE Case Guidelines. The new IADC Case Guidelines not only help to ensure operation integrity management but also assists drilling contractors with HSE cases that are based on a global standard rather than local regulation. This will allow even inexperienced HSE and Human Resource (HR) professionals to quickly develop useful risk assessments. This will provide experienced professionals with a non-traditional insight into risk control.

Areas Addressed

The BowTieXP software methodology demonstrates how well an organization is managing its risk. BowTieXP models provide a simple, graphical representation of the relationship between the causes and consequences of business mistakes as well as control measures, tasks, procedures, and responsible individuals and competencies which support and enforce the controls.

The left side of the diagram shows the threats and the threat barriers (controls) in a form similar to that of a fault tree. The right hand side shows the consequences and the recovery preparedness barriers (mitigation controls) similar to an event tree. The level of risk associated with each BowTieXP model can be categorized by a basic risk matrix. Using BowTieXP models the barriers can be categorized by Basic Risk Factors (BRFs) and General Failure Types (GFTs).

These barriers can be linked to specific sections or procedures of the organization’s safety management system where responsibilities and inspection frequency are assigned and ranked and then color coded for effectiveness. The diagram represents a simple BowTieXP diagram.

Boots & Coots’ HazOps will be conducted using a BowTieXP software application analysis. The methodology provides a simple graphical presentation of the relationship between the potential risks, consequences, and barriers to mitigate the risks. The consequences can be assigned a risk ranking according to the client’s risk matrix and ultimately to demonstrate the organization’s risks are reduced to as low as reasonably practicable (ALARP).

For more information, contact your Boots & Coots representative or email us at boots-coots@halliburton.com.

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