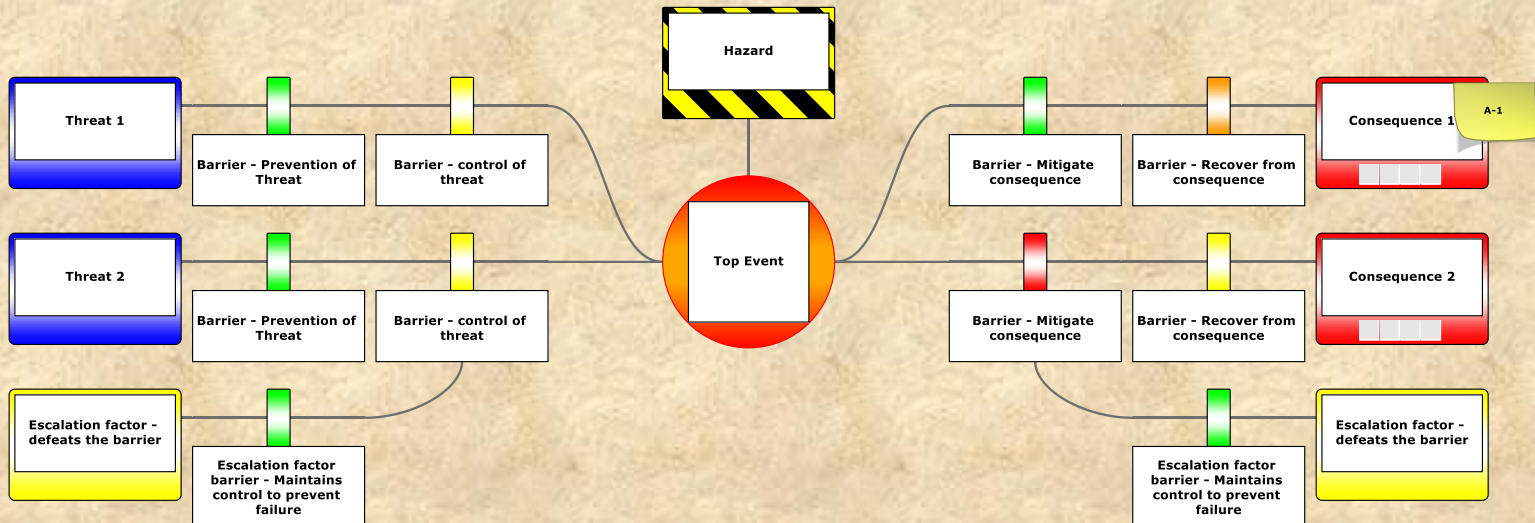


Integrated approach to Risk Management

Bowtie methodology



Public Training workshop

7th and 8th Sept 2023

Training Location: - Delhi

Course facilitators



Anantha Prasad S



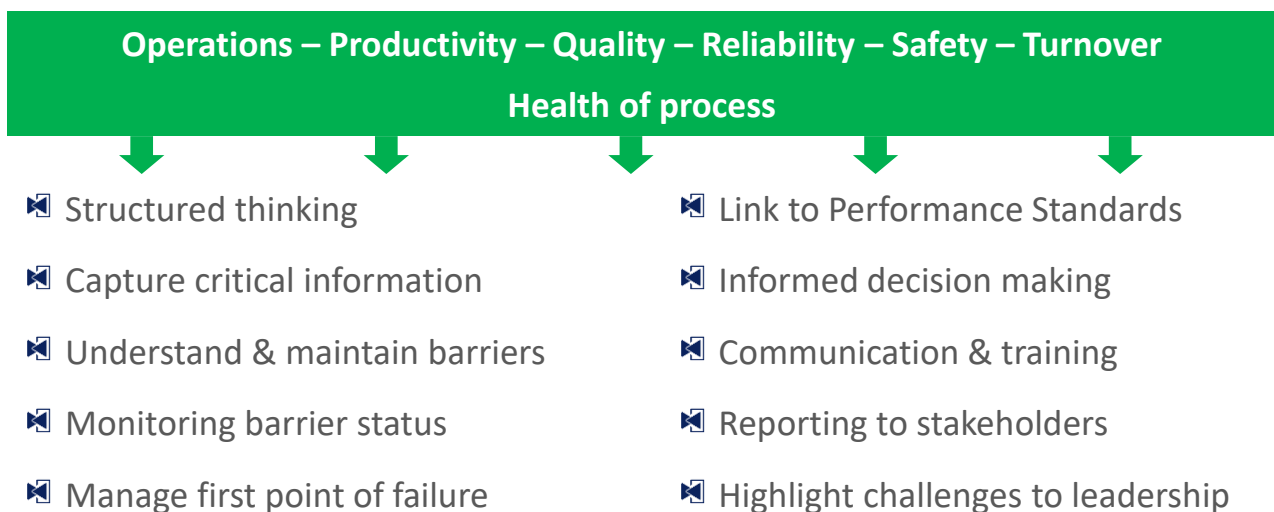
Barrier based risk management and bowties

Barrier based risk models, and in particular Bowtie diagrams, are increasingly used to assess and measure key risks that can influence your critical business processes. Process disruptions can have an effect on efficiency, safety, quality or reputation. For many years the Bowtie method and BowTieXP software tool have been used by many companies from a variety of industries in oil & gas, chemicals, mining, maritime, energy, military, government, aviation, transport, pipelines, healthcare and finance sectors.

A Bowtie diagram is not just a static picture useful to visually communicate your risks. The barrier based risk management model can be also be used for verification and for compliance. For these purposes existing data is used coming from audits, inspections and incident analysis. Furthermore data is used related to required competencies (for maintaining barriers), ongoing or planned maintenance, performance standards, external conditions – or even a DCS system. This is what we call “**advanced barrier management**”.

Benefits of attending this course

At the end of the workshop, participants will have a thorough understanding of risk perception & risk management in various spheres of industrial operations as illustrated below



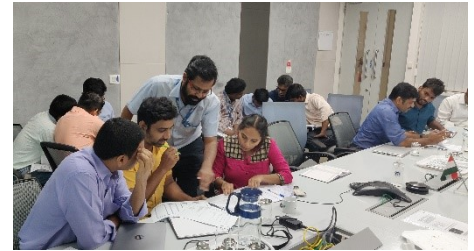
Who should attend this course

- ❏ HSE and risk professionals
- ❏ Key personnel involved in developing, implementing, maintaining, using HSE Management system
- ❏ Line, Project Managers
- ❏ Key personnel involved in incident investigation
- ❏ Line managers who need more insight in business process improvements
- ❏ Senior Management team members

Sudaksha invites you to this unique training workshop

Course contents

- ✦ Introduction to ISO 31000
- ✦ Understanding barrier based Risk Management
- ✦ Understanding the bowtie methodology
- ✦ Elements of a bowtie
- ✦ Building bowties – Individual & group exercises
- ✦ Adding details to bowties – Metadata
- ✦ Identifying critical barriers
- ✦ Optimising risks to reach ALARP status
- ✦ Data filtering in bowties
- ✦ Report generation



Participants shall be provided with fully functional BowTieXP software licences valid for 30 days from the date of the training workshop.

About the facilitators

Mr. Anantha Prasad is a qualified safety professional with over 3 decades of experience. in EHS leadership roles in global conglomerates and a certified practitioner on barrier based Risk Management using BowTieXP.



Testimonial from a participant of our training workshop



Asith Anantharama • 1st
Zonal Process Safety Expert - Aarti Industries Ltd.
7mo • 🌐

BowTie work shop -

New year has started with some new learnings.
3 days workshop on BowTie and barrier management at [Aarti Industries Ltd.](#)

A methodological brainstorming technique of BowTie was well delivered by [Anantha Prasad](#) of Sudaksha management solutions via BowTieXP tool .

Looking forward to make best use of this new tool and technique to assess the Barriers for critical processes.

Sudaksha Management Solutions LLP, 206, V S Cozy Apartments,
28th A Main, 18th Cross, 6th Phase J P Nagar, Bangalore – 560078.
For registration contact: - info@sudakshaconsulting.com