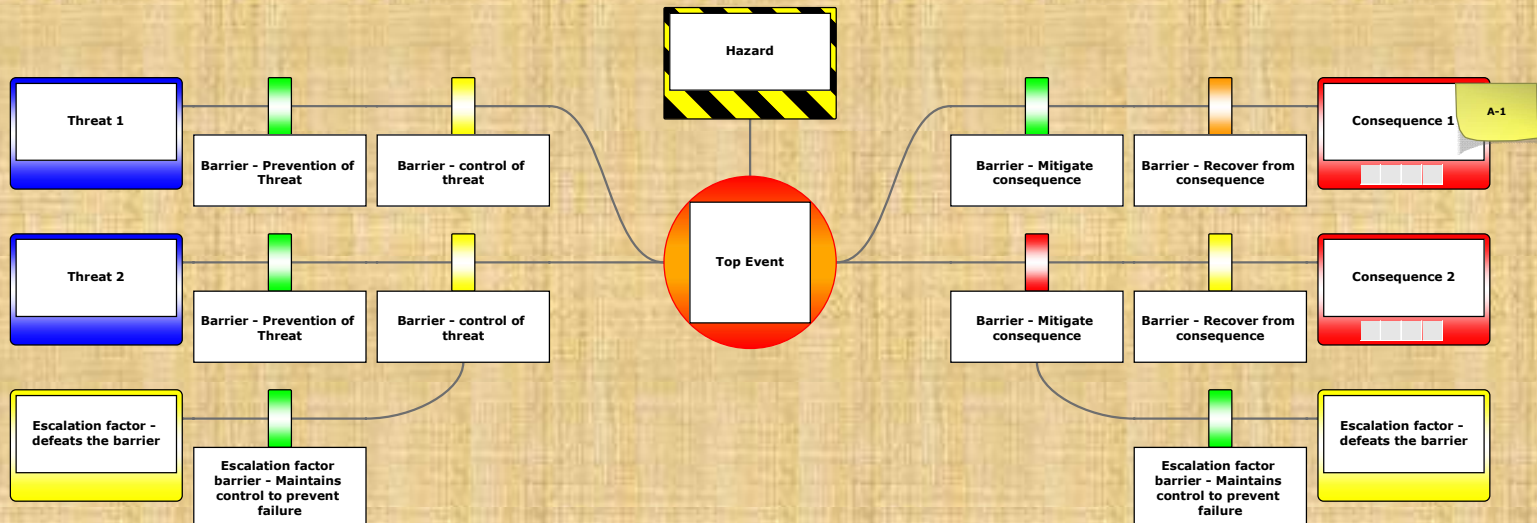


# Integrated approach to Risk Management

## Bowtie methodology



## Virtual Training workshop

21<sup>st</sup> & 22<sup>nd</sup> April 2021

(8 hours per day)

Training platform: - Google meet

## Course facilitators



Anantha Prasad S



Flt Lt. Mukti Srivastava

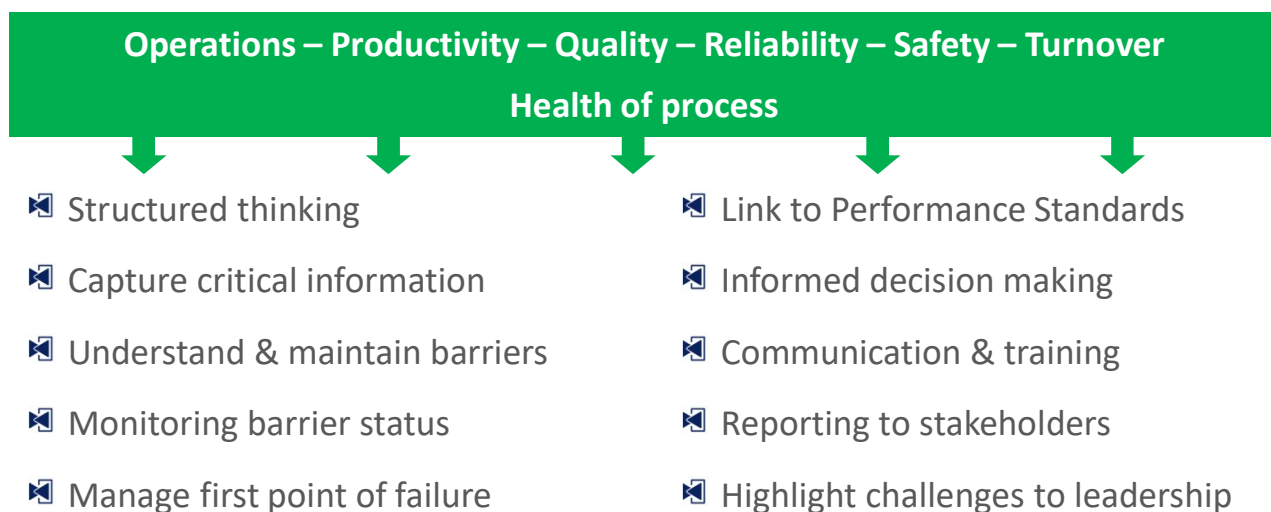
## Barrier based risk management and bowties

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 online 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



### 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.

**Flt Lt. Mukti Srivastava**, the first ever lady pilot officer to be an ATC of the IAF. She brings a career experience of more than 2 decades in a wide array of leadership & EHS roles in several multinational corporations.

Testimonial from a participant of our training workshop



Ghani Sahib TechIOSH • 1st  
Safety and Performance Coach at Borr Drilling

Just attended this course. Knowledge acquired was phenomenal and the training delivery by **Anantha Prasad** was so passionate and he went the extra mile to answer every question we had. **Flight Lieutenant Mukti Srivastava** being an excellent facilitator was very involved and helped us along the way. Thank you **Anantha Prasad** and **Flight Lieutenant Mukti Srivastava**. This training is highly recommended!!