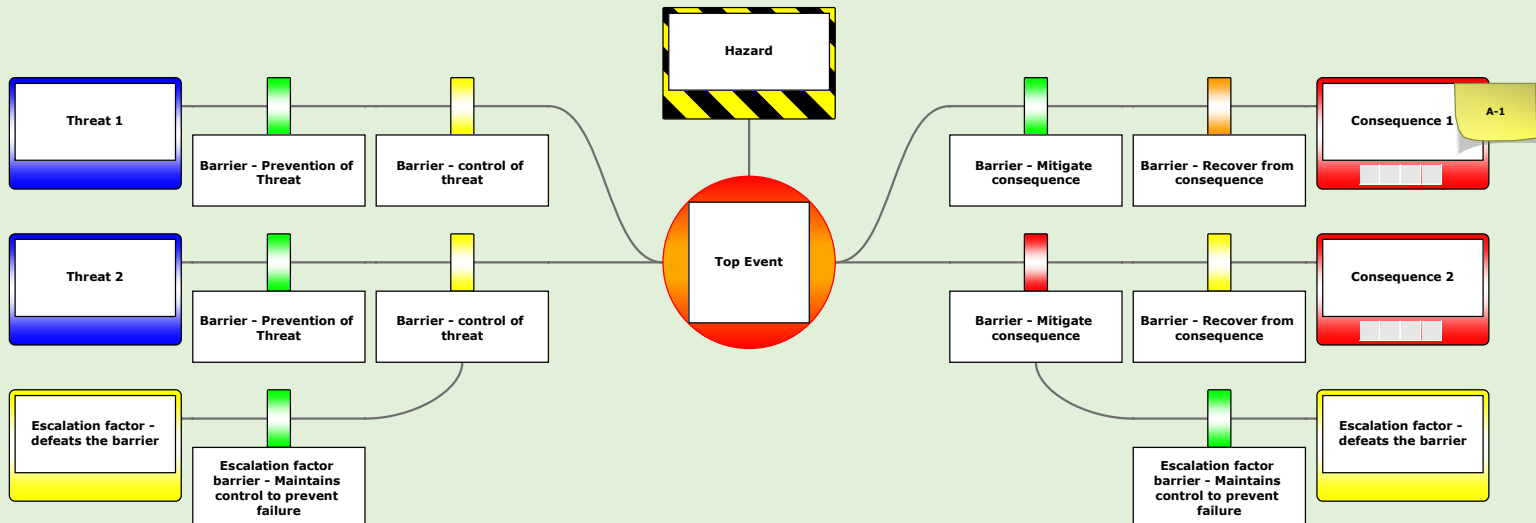


# Integrated approach to Risk Management

## Bowtie methodology



## Online Training workshop

17<sup>th</sup> & 18<sup>th</sup> Feb 2021

(8 hours per day)

Training platform: - Google meet

## Course facilitators



Anantha Prasad S



Flt Lt. Mukti Srivastava

# The essence of safe processes and operations is about managing risks

This can be successful when we have a deep insight on

- Do we understand what can go wrong?
- Do we know what are the systems in place to prevent things going wrong?
- Do we know that these systems will work when needed?

This becomes significant as historically organisations have little focus on low frequency, high consequence risks and with new technologies, the complexity of the primary processes in organizations is increasing rapidly and safe operations are always questionable. This calls for plugging the gap between technical possibilities and what organizations are 'designed' to handle.

We at Sudaksha, enable organisations to manage risks through the barrier based risk management using the bowtie methodology & BowTieXP software.

## Barrier based risk management and bowties

### - advanced barrier management

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. These industries are: oil & gas, chemicals, mining, maritime, energy, military, government, aviation, transport, pipelines, healthcare and finance.

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**”.

## 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.

**Training Registration form**  
**Online training workshop**  
**17th & 18th Feb 2021**

|                                       |   |  |
|---------------------------------------|---|--|
| <b>Full Name (In capital letters)</b> | : |  |
| <b>Job Title</b>                      | : |  |
| <b>Company / Institution</b>          | : |  |
| <b>Phone</b>                          | : |  |
| <b>E-mail</b>                         | : |  |
| <b>Company / institution Address</b>  | : |  |
| <b>GST No.</b>                        | : |  |

**Course Fees - per participant (18% GST will apply)**

| Students | Corporate participants |
|----------|------------------------|
| ₹ 10,000 | ₹ 15,000               |

**Conditions: -**

- Discounts may apply for group participation. Contact us for details.
- Students are required to submit a signed letter by the head of institution along with a valid student ID card for registration.

**Payment Options**

|  |  |
|--|--|
| <input type="checkbox"/> <b>Purchase Order</b><br><b>P.O #</b> _____ | P.O to be made in the name of "Sudaksha Management Solutions LLP"<br><b>Payable to</b> Sudaksha Management Solutions LLP<br><b>Bank</b> Punjab National Bank<br><b>A/c No</b> 1062002100019363<br><b>IFSC</b> PUNB0159400<br><b>GST IN</b> 29ADCF57340C1Z5 |
| <input type="checkbox"/> <b>Online Transfer</b>                      |  |
| <input type="checkbox"/> <b>Cheque / DD</b>                          |  |

**Event Conditions**

- In the event a program is cancelled by Sudaksha all participants will be notified via email and a full refund of the program fee will be made.
- Minimum attendance numbers must be met prior to any training event.
- Sudaksha reserves the right to make changes to the event at its own discretion.

**Cancellations & Refunds**

- All cancellation /substitutions must be advised in writing.
- If a cancellation is received more than 7 working days prior to the event start date, an administration fee of ₹ 1,500 (inclusive of tax) will be charged.
- If cancellation is made 3-7 working days from event start date, 50% fees will be refunded. For cancellations made 0-3 working days or participant fails to attend no refund will be done.

**Substitutions**

- Substitutions can be made and no fee will be charged. Please advise us the participant name change at least 7 days before start of the event.