

Hazards34

Suggested topics

Assurance

- Audits
- COMAH & Seveso
- Cyber security and cyber threats to process safety
- Hazard and risk
- Inspections
- Legislation and compliance
- Metrics
- New codes of practice
- Occupied buildings risk assessment
- Oversight
- Regulation & guidance
- Safety case reviews
- Other

Climate change, decarbonisation, new technologies

- Carbon capture
- Inherent safety
- Managing the effect on existing infrastructure
- Managing the impact of climate change and extreme events (eg flood risk, natural hazards) NaTech
- Managing the major hazard implications of new energies (eg H₂, LNG, CO₂, batteries, biomethane, unconventional gas, wind, solar)
- Nuclear
- Other

Engineering and design

- Asset integrity and ageing plant
- Chemical reaction and decomposition hazards
- Digitalisation (eg cyber security, artificial intelligence, big data, autonomous systems)
- Dispersion modelling
- DSEAR
- Dust explosions
- Energy storage
- Fire and explosion hazards and assessment

- Functional safety & SIL
- Hazardous area classification
- Hazardous waste
- Inherent safety
- Pressure relief
- Risk analysis
- Toxic hazards
- Other

Human factors

- Alarm management
- Contractor management
- Critical task analysis
- Fatigue/shift patterns
- Public impact
- Safety psychology
- Situational awareness
- Unmanned plant
- Other

Knowledge and competence

- Analysis of losses
- Big data
- Case histories
- Competence development
- Condition monitoring
- Consequence assessment and modelling
- Education, training and communication
- Failure data and repeat failures
- Lessons from incidents and near misses
- Process safety animations
- Other

Processes and procedures

- Business risk
- Decommissioning
- Incident investigation
- Inherent safety
- Maintenance
- Process isolation
- Process safety management and integration into business systems

- Projects and construction
- Standard operating procedures
- Other

Process safety and environmental protection

- Air
- Contamination and clean-up
- Flood risk
- MAH environmental impact and assessment
- Natural hazards (eg lightening)
- Noise
- Odour
- Waste
- Water
- Other

Risk Assessment and management

- Application of bowties
- Consequence assessment and modelling
- HAZOP and LOPA
- Management of change
- Management of non-routine operations
- Operational risk assessment (business risk)
- Permit to work
- Pre-start up safety reviews
- Process safety management
- Risk assessments
- Standard operating procedures
- Other

Safety culture

- Corporate memory
- Engaging business leaders
- Safer plant operations
- Safety culture assessment
- Safety leadership
- Stakeholder engagement
- Other