



**JATIN N. SHAH SCR**  
**Senior Principal Consultant**  
**CCPS Fellow**

**M.S., Chemical Engineering, University of Illinois**

**B.S., Chemical Engineering, University of Kansas**

**Areas of Practice**

Jatin Shah has over thirty-five (35) years of experience specializing in Risk Management Services including quantitative risk assessment (QRA), Corporate Risk Management, and Risk-based Decision Support. He brings an extensive array of skills that includes Risk Management Process Improvement, Decision Analysis, Decision Criteria/Guideline Development, Risk Analysis and Quantification, and development of conceptual layout and equipment specification for toxic risk mitigation. During his career, Mr. Shah has identified and evaluated cost-effective risk optimization alternatives that allow management to make informed risk management decisions and has helped clients optimize their risk management budgets.

**Experience**

- Identified and evaluated cost-effective risk optimization alternatives that allow management to make informed risk management decisions. He has helped clients optimize their risk management budgets and realize significant risk management performance improvement.
- Extended the Quantitative Risk Analysis (QRA) methodology as described in the CCPS guidelines to incorporate non-safety related risk exposures such as environmental losses, property damage, business interruption, market share loss, credit risk analysis, and other intangible risk exposures. This comprehensive integrated risk assessment technique provides clarity to help leaders make critical risk-based decisions. The integrated risk assessment approach has been utilized to evaluate risks associated with facility operational risk exposures, external (natural event) risk exposure, transportation risk exposure, and overall supply chain exposure. This integrated approach has been utilized in several studies that optimize crisis management and business continuity planning, including revisions to contingency planning and training scenarios for several large organizations.
- Conducted more than 400 QRA studies of chemical, petrochemical, oil and gas refining, exploration & production operations throughout the world, with over 100 QRA studies of HF alkylation units evaluating the toxic risk potential of accidental HF releases. The studies are typically utilized to help understand and manage the risk exposure due to the potential for multiple off-site impacts from a single accidental release. In addition to the baseline risk profile, most of the studies evaluated potential risk reduction measures (engineering and processes changes) that help reduce the likelihood of the release and/or reduce the release inventory, limiting the release duration. Many of the risk reduction options reviewed include: Motor Operated Valves (strategic locations); Rapid Acid Transfer System; Water Spray Mitigation; Detection and Auto Activation Systems; Settler Compartmentalization. More recently, additive technology has provided additional mitigation benefits that operators may be considering in the future. Jatin has also helped companies with design of mitigation systems for HF alkylation units including water mitigation systems, detector locations, and evaluation of EIV placements.
- Conducted studies that have helped multinational companies review their existing risk management processes and worked with them to develop optimization strategies that help address their enterprise-wide risk exposures on a consistent and transparent basis. Through these studies, the clients have derived significant value from having streamlined processes to manage risks and benefitted from the creation or customization of company specific risk management tools.
- API 751 Committee, CCPS Planning Board Member. Jatin also serves on numerous conference committees and has numerous published articles and conference presentations.

**Professional Chronology**

Universal Edibles Oil Inc., 1987-1988, Risk and Industrial Safety Consultants, 1988-1990, DNV Technica Inc., 1990-1993, ERM Four Elements, 1993-2000, KPMG LLP, 2000-2002, MSA Risk and Economic Consulting Services, 2002-2003; Baker Engineering and Risk Consultants Inc. (BakerRisk), 2003 – Present.