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## CCPS WORKSHOP ON PROCESS SAFETY METRICS: API-RP-754 (EDITION 3) IMPLEMENTATION

### Facilitators

- Shakeel Kadri: ED & CEO, CCPS
- Kelly Keim: Retired Chief Process Safety Engineer, ExxonMobil Chemical Co.

**Date: September 4-5, 2024 at Carlton Al Moabed Hotel, Dammam, Saudi Arabia. Time: 07:30 to 16:00 Hrs.**

### Workshop Objectives

- Assess the current status in the process safety performance measurement history.
- Competently use API RP 754: Process Safety Performance Indicators – 3rd Edition.
- Classify Tier 1 and Tier 2 Process Safety incidents effectively.
- Utilize the CCPS Process Safety Event Evaluation App.
- Establish data collection requirements for Tier 1 – 3 events; select leading indicators (Tiers 3 & 4).
- Perform basic data analysis for Tier 1 – 4 indicators.
- Test Tier 3 & 4 indicators for their "leading value".
- Identify areas for improvement initiatives.
- Review examples of industry-leading improvement initiatives.
- Communicate Process Safety indicator results effectively.
- Provide opportunities for participant questions and benchmarking.

### Workshop Outline

- Introduction/Overview: Process Safety Metrics
- **API RP 754: Lagging Indicators (Tier 1 and Tier 2)**
  - Fire/explosion damage
  - Community evacuation
  - Threshold release quantities
  - Multi-component releases
  - Decision tree usage
  - Calculating PSE rates
  - Tier 1 PSE Severity Weighting System
  - Principles of Leading and Lagging Indicators & Benchmarking
  - Tier 1&2 PSE Data Capture & Data Analysis, including discussion of PSE investigation practices
- **API RP 754 Leading Indicators (Tier 3 & 4)**
  - Data Analysis, including discussion of investigation
  - Process Safety leading indicator benchmarking
  - Developing Improvement Initiatives

Breakout Sessions

### REGISTRATION FEES

CCPS Member Co.: \$800  
CCPS Non Member Co. : \$1000

### FOR REGISTRATIONS VISIT

<https://www.aiche.org/ccps/conferences-events>  
For more details please contact [umesd@aiche.org](mailto:umesd@aiche.org)

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# Workshop Facilitators

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**SHAKEEL KADRI**

Executive Director and CEO  
CCPS

Shakeel Kadri, a world leader in process safety, brings over 40 years of broad industry experience, focusing on improving process safety. Before joining as a ED and CEO of CCPS, Shakeel spent 36 years at Air Products and Chemicals, Inc., where he served as Director of Global Process Safety and Risk Management. He built the global process safety team, raised risk awareness, revitalized safety performance measurement, and developed strong industry engagement.

Shakeel is highly active in the industry, serving on committees for organizations like the American Chemistry Council, API, MKO Process Safety Center, ICCA, CGA, EIGA, and AFPM.

He holds a BS and MS in Chemical Engineering, an MBA in Finance, and is an AIChE and CCPS Fellow.



**KELLY KEIM**

Retired Chief Process Safety Engineer,  
ExxonMobil Chemical Co.

Kelly Keim retired as Chief Process Safety Engineer at ExxonMobil Research and Engineering after 33 years. Initially working in operations and maintenance management for 15 years, Kelly later focused on process safety. Kelly Keim served as vice-chair for the API RP 754 standard for its first and second editions. He spoke to the US Chemical Safety Board in 2012 about the industry's rapid adoption of the standard.

Kelly has presented on process safety indicators at major conferences, including the AFPM national safety conference, AIChE Global Congress on Process Safety, CCPS Latin American Process Safety Conference, and the Mary Kay O'Connor Process Safety Symposia.

He has published three articles in Chemical Processing magazine and contributed to CCPS guidelines.

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