

**Topic name:** Precursor Analysis and Field Safety Engagements

**Length:** 2-3 hours

**Targeted Levels:** All levels

**Executive Description:** Precursor analysis is a research-validated strategy targeted specifically at preventing serious injuries and fatalities. This workshop will describe the research process used to develop, test, refine, and validate this method and how industry practitioners have adapted the method to integrate with their business. By using field safety engagements and a simple scorecard, practitioners can identify the presence of known precursors, assess SIF potential, and take action before exposure occurs.

**Detailed Description:** Serious incidents and fatalities continue to plague the industry. Recent research has demonstrated that the warning signs of these events (precursors) are related to human factors like fatigue, distraction, tendency to improvise, isolation, and work pressure. The chief output of the research is a method to hold safety engagements that enable a manager to have brief but structured conversation with a crew. This conversation returns the information needed to assess the presence or absence of known precursors. To promote confidence in the method, the workshop begins with a brief overview of the research that shows how the method was scientifically created via a series of experiments and statistical analysis of empirical data. The workshop continues with a description of how the research results were translated to a practical method of field safety engagement. A practice video of a real engagement is used to demonstrate and engagement and coach participants in an assessment. The workshop concludes with a discussion of the best practices for field safety engagements and the lessons learned from over 100 engagements in 15 countries. Freely available resources are shared with the group.

**Speaker:** Matthew R. Hallowell, PhD | Executive Director of Safety Function, LLC | P. 303.704.8523 | [www.safetyfunction.com](http://www.safetyfunction.com)

**Experience:** Dr. Hallowell has been invited keynote speaker at over 30 conferences and workshops in the past 3 years. These include keynote presentations at the Edison Electric Institute, INGAA Foundation, Stanford Project Leadership Institute, the International Pipeline and Offshore Contractors Association, and safety summits for Quanta Services, Aecon, Price Gregory, Exelon, Chevron, ConocoPhillips, Wolfcreek Group, and others.