“Using Leading Indicators to Continuously Improve QHSE Performance”

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Abstract

Have you found the leading indicators for which continued execution TRULY does result in fewer injuries, less spills, and generally better QHSE performance? If so, can you prove it? If not, is it something you wish to do?

This session will dive into the increasingly hot topic of “Leading Indicators” and how combining a large global data set with some fundamental statistical methods can result in both finding those factors which TRULY affect performance outcomes and the mathematical support to prove it.

Initially, we will explore a rather large data set involving thousands of sites cutting across the globe for both Energy companies and the Oilfield Service businesses which serve as contractors to them. We will discuss how many different types of “leading indicators” are being extracted from this data set and analyzed to identify the TRUE mathematically-proven leading indicators of performance.

We will review the many different types of metrics which can be extracted from this vast data set, as well as discuss benchmarked data – ranging from the standard QHSE activities such as ratio’s of near miss reports to high-severity incidents, percent of employees involved in proactive reporting activities, rate of on-time closure of action items, etc.. to the much more “elusive” measurements like leadership, culture, responsiveness, etc…

Finally, we will discuss how these many variables can be analyzed to identify those factors which have the strongest association to “outcomes” (losses). And we will briefly review how these “proven” leading indicators may be used on management scorecards to influence execution and continuously improve performance.