



WOLFCREEK

SAFETY SOLUTIONS



CASE STUDIES



CLIENT

Large Pipeline Construction Contractor

PROJECT

Pre-Job Safety Meeting Quality Assessment App/ Safety Assessor/ Mobile App

INDUSTRY / SECTOR

Interstate Pipeline Construction



PROJECT OVERVIEW

The Pre-Job Safety Meeting Quality Measurement Tool was originally developed by Construction Industry Institute Research Team 293, an industry-academic team of 22 industry leaders. The Team was led by Dr. Matt Hallowell, Endowed Professor of Construction Engineering at the University of Colorado at Boulder. The tool was designed to assist practitioners with the assessment and improvement of the quality of pre-job safety meetings. The general philosophy of the team was that every safety manager or crew leader wants to lead a high-quality safety meeting, but they often need guidance and feedback on 'what good looks like.'

The anatomy of the tool includes nine elements that define the quality of a meeting, the levels of element maturity (i.e., Deficient,

Good, Better, and Best), and the detailed criteria or description for each level. The content of the tool was developed using the Delphi method and the process was rigorous enough to be published in the American Society of Civil Engineers' Journal of Construction Engineering and Management.

After the tool was published, Wolfcreek Safety Solutions - in partnership with the original lead researcher - developed the tool into a user-friendly app that enables efficient and effective field assessments and organizational analytics. The app allows organizations to enter and track their pre-job safety meeting quality data and use the analytics as effective leading indicators that can be used for continuous improvement.

THE PROBLEM

The current state of Pre-Job Safety Meetings, (using a Job Safety Analysis (JSA)), is one where quantity is emphasized over quality. The original intent of a JSA was for non-routine, high hazard work activities and as a tool to facilitate a high-quality safety discussion prior to starting the work. Over the years, use of JSA's has expanded in scope and scale to cover all work activities, with an increased emphasis on documentation and frequency. The result has been an increase in focus on the documentation and a decrease in focus on the quality of both the documentation and the resulting pre-job safety meetings. In many cases, crew leaders have not been taught what a high-quality pre-job safety meeting looks like. Often, key risks are missed and not discussed contrary to the original intent of the JSA and associated meeting. In addition, quantity of JSA's has not been validated as a predictive indicator for improved safety performance, whereas "quality" of the pre-job meetings has been.

OUR SOLUTION

Using the tool enabled by the Mobile App will add consistency and rigor in the assessment of pre-job safety meeting quality and, more importantly, to enable safety professionals to effectively coach 'what good looks like'. The ideal process involves observing, scoring, coaching, and improving. Initially, the assessor's role is to obtain an authentic observation of a typical pre-job safety meeting for the crew. After entering the meeting information, the observer will provide feedback to the meeting leader. Using this as an opportunity to coach and build rapport, the observer may highlight strengths and note the areas where the meeting could be improved. The discussion should begin with areas for improvement with specific recommendations and end on a positive note with specific strengths.

In addition, the app enables analytics in a variety of forms, including scores by criteria, work type, project, meeting leader, etc... Goals can be set, and results can be compared against those goals. The data can be easily exported to PDF and shared within the organization. Trending is a feature of the tool since trending and use of such data as a leading indicator drives continuous improvement.



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