



MAY 2024

Project Title: Development of a Worker Safety Performance Estimation Tool

Task Number: 4322

Start Date: June 1, 2024

Completion Date: TBD

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Research

Notes

Development of a Worker Safety Performance Estimation Tool

This project will develop a worker safety performance estimation tool for evaluation of worker safety measures in work zones.

WHAT IS THE NEED?

To meet its 2020-2024 Strategic Management Plan goal of eliminating employee fatalities and serious injuries in the line of duty, the California Department of Transportation (Caltrans) is looking to take a proactive approach in placing worker safety measures in its work zones. There is a need to develop an accurate worker safety performance tool which can be used to determine the effectiveness of worker safety countermeasures placed in highway work zones.

WHAT ARE WE DOING?

In this research, the Advanced Highway Maintenance and Construction Technology (AHMCT) Research Center at the University of California (UC) Davis will conduct a literature review of existing practices to determine the most accurate crash reduction factor that will help determine the effectiveness of safety countermeasures. AHMCT will propose methods on how to enhance the Safety Performance Estimation Tool. This will be accomplished by partnering with Division of Safety Programs' Office of Safe System Approach Integration and Division of Design's Landscape Architecture Program to understand their needs. The results will be compiled in a final report, along with training materials for Caltrans to distribute to end users.

WHAT IS OUR GOAL?

The goal of this research project is to improve the accuracy of the Safety Performance Estimation Tool which will help Caltrans personnel determine the effectiveness of safety countermeasures in eliminating worker fatalities and serious injuries.



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Development of a Worker Safety Performance Estimation Tool



WHAT IS THE BENEFIT?

The results of this project will help improve the safety for roadside workers by identifying the appropriate countermeasures needed for planned work activities based on reduced and eliminated worker fatalities and serious injuries.

WHAT IS THE PROGRESS TO DATE?

As of May 2024, contract has been reviewed and approved by Caltrans Legal team. Contract has been reviewed and approved by the contractor.

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