CPWR KEY FINDINGS FROM RESEARCH



Overview

Construction continues to have one of the highest rates of orkplace deaths and injuries of an U.S. industr. Falls particularl in the residential sector are the leading cause of fatalities. Man construction emplo ers use training programs to tr_ to reduce these incidents, but current programs often produce lo engagement and motivation among trainees. To address this problem, the researchers developed fall ha ard training methodolog, for residential construction orkers featuring immersive stor, telling, hich puts participants into a digital environment and delivers job site safet, stor, narratives. The, focused on ho the inclusion of stor telling-driven narratives affects safet, training engagement and motivation. The emplo ed a bet een-subject e perimental design ith t o approaches 1) virtual human stor telling-driven narratives and 2) non-stor telling narratives to evaluate trainee engagement and motivation. Data as collected using e_e-tracking metrics, a ha ard identi cation surve, and selfcac, and motivation questionnaires from 42 residential construction orkers in Michigan.

For more information, contact: Ricardo Eiris: reiris@asu.edu Read the report: https://bit.l_/48vk4BV

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Key Findings

The use of immersive stor telling in fall prevention training did not produce statistical, signi cant differences in participants' levels of cognitive and emotional motivation and engagement.

Ho ever, using immersive stor telling during the training produces greater behavior and engagement motivation during fall prevention scenarios involving improperl used stepladders (i.e., top step and top cap) and buckets (i.e., used as step stools)

The research team recommends using immersive stor, telling in future training interventions to improve trainees' behavioral engagement and motivation.