



# Cargo Securement



## OVERVIEW

*Red Iron Labs' virtual reality simulations enhance real-world training, providing the ability to reset and repeat expensive, difficult to produce, or life-threatening scenarios in safe and controlled environments.*

The Cargo Securement simulation was a project for United Vision Logistics (UVL) to provide interactive training modules for properly securing large transportation vehicles.

The simulation was used to transform HR training videos into interactive virtual reality experiences to train how to properly secure and check a vehicle for transportation.

The 5-part simulation has 60 steps and take 30 minutes to complete. The simulation uses a checklist approach, walking the user through the standard operating procedure.

## OBJECTIVES

- Create a simulation to match existing HR training material and meet FMCSA transportation guidelines.
- Recreate main shipment center and surrounding area for the in-depth VR training simulation.
- Support change management targets to integrate technology into training program.
- Provided easy to use control schema, including voice over instructions and removing unnecessary interactivity such as teleportation, and process automation where possible.

## OUTCOMES

- Establishing a new series of training initiatives and continuous training programs for UVL.
- Following the successful testing at their Broussard, LA training facility, the experience is now planned for a nation-wide release.
- Reducing accidents and possible lawsuits related to verifying employee knowledge and training.

## KEY STATISTICS



A study conducted in 2013 using DOT data estimated that 80% of cargo securement related violations resulted in Out-of-Service (OOS) order violations.



13% of the nearly 12,000 trucks that were deemed out-of-service had load securement issues.



Unsecured cargo can shift, causing accelerated weight and mass to damage the load or topple the trailer.

41% of all fatal work injuries in 2011 were the result of transportation incidents.

In 2019, 1,270 U.S. workers died in work-related crashes involving motor vehicles (24% of all deaths).