

PRE-DEPARTURE INSPECTION (CFR 215, 238)

TRAINING & EVALUATION SIM

BACKGROUND & PROBLEM

At each location where rail cars are added to a train (which have not been inspected at that point), the cars must be inspected by the train crew for defective equipment and other safety concerns. This inspection is a fundamental part of a railroad's initial training for Conductors and rail car Mechanics. This inspection and testing, known as a Pre-Departure Inspection (CFR 215, 238), requires Railroads to have multiple rail cars on-site and allocate a significant amount of training time for demonstration, practice and evaluation.

SOLUTION OVERVIEW

To alleviate physical space and time constraints, Railroads can deploy an interactive 3D Simulation covering the complete inspection process. The simulation allows a student to visually inspect a variety of randomized rail cars, as part of a train, while manipulating components to identify defective equipment and other safety concerns. The student determines which components are defective via an exam practice mode. This gives the student additional practice at their pace with a record of their performance given at the end.

FEATURES

Inspection Items include: Brake Rigging, leaning/listing/sagging carbody, objects dragging under or extending from cars, insecure coupling, wheel defects, hand brakes, and all safety appliances.

Complete list [here](#).

Car types: Gondola, Flat, Box, Tanker, Hopper, Well/Intermodal.

Available on PC, Mac, iOS, Android

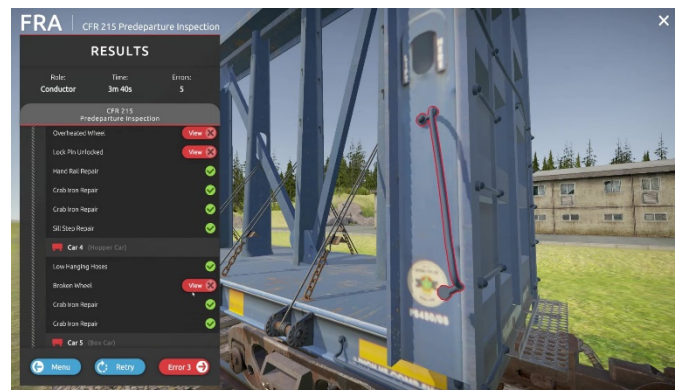
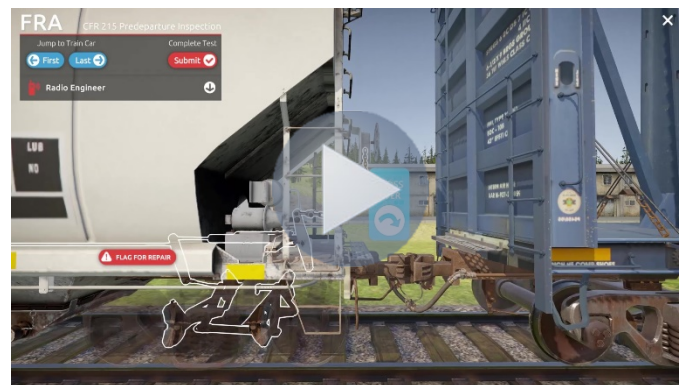
BENEFITS

1. Improved knowledge of rail car components and functions and Increased efficiency when performing the Pre-Departure Inspection.
2. Reduced need for live equipment (Locomotives/rail cars allocated for training).
3. A standardized training resource and a formalized tool for refresher training - part of a wider initiative for meeting FRA Part 243 training requirements.

WHAT TO EXPECT

After using the sim, employees should be able to:

- Identify & measure defective rail car components
- Inspect wheels/trucks for defects
- Determine if equipment is securely coupled and if hand brakes are applied or released
- Identify safety hazards on rail cars
- Complete a Pre-Departure Inspection (CFR 215, 238)



"Training 100 mechanics & 1800 conductors using the sim and up to 15,000 soon." – Norfolk Southern
"Rolling the Sim to the entire Mechanical group" - CSX

Want the same results for your workforce? License this simulation for immediate deployment or discuss a custom requirement – solutions@hwd3d.com or call 888.781.0274 ext. 701.