

LOCOMOTIVE DAILY INSPECTION (CFR 229)

TRAINING & EVALUATION SIM

BACKGROUND & PROBLEM

Every day that a locomotive is in use it must receive a Daily Inspection. This inspection is a thorough examination of all major components of the locomotive to ensure that no safety hazards exist, as well as, confirming that the locomotive meets all Federal Railroad Administration requirements (CFR 229). Currently, Railroads provide training on this inspection through PowerPoint presentations and hands-on training. The amount of hands-on training is limited by class size and availability of locomotives. These limitations make hands-on training costly, difficult to schedule, and non-scalable.

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 over 200+ items, giving the student additional practice at their pace with a record of their performance at the end.

Used for: Classroom Training, Evaluation.

FEATURES

- User Interface (UI) to navigate & interact with 200+ inspection items.
- Inspection items with multiple settings, such as lights, function in all available settings.
- Inspection items with possible defects are randomly generated in two visual states; “good” or “bad”.
- Virtual inspection form to fill in during inspection.
- Score card to show performance and improvement.

Complete list of Inspection Items [here](#).

Available on PC, iOS, Android, Web (LMS/SCORM)

BENEFITS

1. Improved knowledge of Locomotive components and functions and Increased efficiency when performing the Locomotive Daily Inspection.
2. Reduced need for live equipment (Locomotives 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 defective components on locomotives.
- Inspect wheels/trucks for defects.
- Identify safety hazards on locomotives.
- Measure locomotive components to determine if they meet requirements.
- Setup locomotive for operation including RCO setup and MU setup.
- Perform an Air Brake Test.



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