

ITI VR Simulator Feature Road Map

Existing Features/Cranes

Existing Cranes

1. Tadano GR-1000XL Hydraulic Boom Rough Terrain
2. Link-Belt 218 HSL Lattice Boom Crawler

Existing Features

- Crane Configuration
 - Pre-Op Inspection Quiz / Basic Set Up
 - Leveling the crane
 - Pre-Lift Deduction Checklist / Load Chart
 - Crane Shut Down
- Scenario Styles
 - Catch the Swing
 - Signal Person
 - Corridors
 - Ball in Barrel
 - Hook | Pole
 - Lifts
 - Wrecking Ball
 - Magnet
 - NCCCO Exam
- Hazards / Training Events
 - Powerlines
 - High Wind
 - Winch Failure
 - Winch Tangle
 - Boom Hydraulic Failure
 - Sling Failure
 - Outrigger Failure
 - Load Center of Gravity Shift
 - Fog
 - Lightning
 - Radio Failure
- Hardware
 - Oculus Rift
 - Desktop clamping armature system
 - Motion Base platform
 - Modular dual axis joystick controller pod
 - Modular twin single axis levers pod
 - Modular triple single axis levers pod
 - Foot Pedals (Motion Base)
 - Xbox controller support

- Scoring
 - Basic load handling
 - Timed exercises and lifts
 - Load collisions
 - Following signal person directions
 - Full NCCCO Practical Exam
- Signal Person
 - Navigation
 - Hand signals
 - Radio signals
 - Basic corrective feedback
- Weather
 - Dynamics time of day lighting (sun shadows)
 - Wind
 - Clouds
 - Lightning
- Admin Software
 - Configuration.ini
 - Courses.xml
 - Controller Utility
 - Dbox Controller Utility

Upcoming Features/Cranes

Upcoming Cranes

3. Terex 28106 Boom Truck
4. Broderson IC-80-J3 Carry Deck
5. Liebherr LR-1300 Large Lattice Boom Crawler
6. Liebherr 550-EH Tower Crane
7. Overhead Crane - Cab Operated
8. Overhead Crane - Gantry
9. Overhead Crane - Nuclear Polar

In Progress Features

- Crane Configuration
 - LMI Programing
 - Support for auxiliary and primary blocks
 - Luffing Jib, Derrick, and Super Lift
- Localization
 - Australia
 - French
 - German
 - Metric measurements
- Multiple Environments

- Indoor Shop
- LNG Refinery
- Steel Mill
- Nuclear Reactor
- Port
- Hazards / Training Events
 - Pedestrians / Other Workers
- Hardware
 - Carry Deck Control Pod
 - Boom Truck hardware
 - Overhead Crane hardware
 - Foot Pedals (Desktop)
- Enhancements
 - Enhanced performance scoring
 - Enhanced Signal Person
 - Enhanced wind engine
 - Enhanced crane audio
 - Enhanced course, chapter and scenario customization
 - Exterior crane view points
 - Candidate screening mode
 - 360 screen snapshots
- Scoring
 - "Too Fast" and "Too Slow" timed exercises
- Weather
 - Precipitation
 - Windshield wipers
 - Indoor lighting
 - Ocean
- Admin/User Facing Software
 - LMS Integration
 - Export user performance metrics
 - Launcher application

Backlog Feature Roadmap

Upcoming Cranes

1. Broderson RT-400 Hydraulic Boom Rough Terrain
2. Liebherr AT
3. Offshore Knuckle Boom Pedestal
4. Port-side Pedestal

Upcoming Features

- Networking
 - Two-Crane Picks
 - Live-Signal Person
 - Live-Rigger
 - Live Instructor
 - Live Audience
- Jib Assembly/Disassembly