

HUMULO
VR TRAINING

2026 COURSE CATALOG

The Off-the-Shelf VR Safety Training Library

22 immersive, scored modules — every one included with every headset. Plus the platform behind them: AI-enabled HFACS safety analytics, built-in MDM and LMS, Humulo Workshop and custom topic creation.

22	100%	Scored	Audit-ready
modules	offline	every trainee	certificates

Humulo Engineering, LLC · SDVOSB · CAGE 833T8 · UEI CDTVMA9AB3H3 · humulo.com · (443) 295-3706

Every topic, one headset

	MODULE	LENGTH	PRIMARY REGULATION
	**Forklift Fundamentals** Equipment Operations	Approx. 35–45 min	29 CFR 1910.178(l)
	**Battery Warehouse Forklifts** Equipment Operations	Approx. 30–40 min	29 CFR 1910.178(l)
	**Pre-Trip Inspection** Equipment Operations	Approx. 25–35 min	49 CFR 396.13
	**Driver Education** Equipment Operations	Approx. 45–60 min	OSH Act §5(a)(1)
	**Fire Extinguisher** Emergency Response	Certification run approx. 6–7 min	29 CFR 1910.157(g)
	**CPR, AED & First Aid** NEW Emergency Response	Approx. 25–30 min	29 CFR 1910.151(b)
	**Downed Power Line** Emergency Response	Approx. 15–20 min	29 CFR 1910.269
	**Lockout / Tagout (LOTO)** Hazardous Energy & Electrical	Approx. 20–25 min	29 CFR 1910.147
	**Electrical Safety** NEW Hazardous Energy & Electrical	Approx. 30–40 min	29 CFR 1910.332
	**Solar Field Installation** Hazardous Energy & Electrical	Approx. 20–30 min	29 CFR 1926.501 / 1926.502
	**Fall Protection** Working at Height	Approx. 30–40 min	29 CFR 1926.501 / 1926.502
	**Ladder Safety** NEW Working at Height	Approx. 20–25 min	29 CFR 1926.1053
	**Scaffolding Safety** NEW Working at Height	Approx. 20–25 min	29 CFR 1926.451
	**Slips, Trips & Falls** Working at Height	Approx. 10–15 min	29 CFR 1910.22
	**Confined Space Entry** Hazard Recognition & Health	Approx. 25–35 min	29 CFR 1910.146
	**HAZWOPER / HAZCOM** Hazard Recognition & Health	Approx. 30–40 min	29 CFR 1910.120
	**General Hazards / Site Safety** Hazard Recognition & Health	Approx. 25–30 min	29 CFR 1926.501
	**Hazard Hunt** Hazard Recognition & Health	Approx. 10–15 min	OSH Act §5(a)(1)
	**Hand Safety** Hazard Recognition & Health	Approx. 15–20 min	29 CFR 1910.138
	**PPE Donning & Doffing** NEW Hazard Recognition & Health	Approx. 20–25 min	29 CFR 1910.132
	**Ergonomics & Safe Lifting** Hazard Recognition & Health	Approx. 20–25 min	OSH Act §5(a)(1)
	**Grain Bin Safety** Hazard Recognition & Health	Approx. 15–20 min	29 CFR 1910.272

Lengths are typical first-time completion times; trainees can repeat any module without limit. Full regulation lists are on each module page.

Learn → Practice → Prove it

1 · Learn
Guided lesson with narration and on-screen coaching. Mistakes are explained, not just marked wrong.

2 · Practice
Unlimited attempts. Free-play and practice modes let trainees repeat the hard parts until they are confident.

3 · Prove it
A scored, uncoached challenge (and quiz where applicable). Each safety-critical step is a named check with a point value; the pass mark is set per module (LOTO, for example, passes at 80%).

4 · Certify
Passing issues a Humulo Certificate of Completion with the trainee's name, module, date and score, saved to their training record.

Audit-ready records

- Every attempt is logged per trainee in the Humulo portal: date, score, each check passed or missed, and time on task.
- Certificates and training history export for audits, and integrate with your LMS via SCORM / xAPI (e.g. SAP SuccessFactors, Workday, 360Learning).
- Records sync when the headset reconnects — training itself runs 100% offline.
- Instructors can cast up to four headsets to one TV so a whole crew can watch and coach.

What VR certification is — and isn't. Humulo modules deliver the training and documented demonstration of knowledge that OSHA standards call for, consistently and on demand. Where a standard also requires an employer evaluation on real equipment (e.g. forklifts), a fit test (respirators) or a hands-on card (CPR), the module prepares the trainee and documents the training; the employer completes that final step. Each module page notes where this applies.

Compliance training isn't safety training

Workers who passed the OSHA video still get hurt. Most incidents aren't rule violations — they are decision errors, missed hazards and communication breakdowns under pressure. Humulo is built on **HFACS**, the Human Factors Analysis and Classification System the U.S. Department of Defense adopted in 2005 to cut preventable mishaps, now used across defense, healthcare and high-consequence industry.

80%
of commercial and military aviation mishaps are tied to human factors, not rule violations
DoD HFACS analysis

87%
of unsafe acts in 487 naval aviation Class A & B mishaps were errors — violations were only 13%
U.S. Naval Safety Center

~13%
of the problem is all that rules-only compliance training reaches
The other 87% has to be drilled

1 · Organizational Influences
Culture, resourcing, training-program quality

2 · Supervision & Leadership
Inadequate supervision, uncorrected known problems

3 · Preconditions for Unsafe Acts
Environment, fatigue, team-coordination breakdowns

4 · Unsafe Acts
Skill, decision and perceptual errors; violations

What VR reaches that video can't

A compliance video targets layer 4 — the rule. A Humulo simulation puts the worker inside the scenario, where decision errors, perceptual errors, environmental complications and team-communication breakdowns are drilled in the same few minutes — safely, repeatedly, and with telemetry.

Forklift	Preconditions · Skill · Decision
Lockout/Tagout	Supervisory · Preconditions · Decision
Electrical / Arc Flash	Perceptual · Decision · Skill
Fire Extinguisher	Decision · Perceptual · Skill
Slips, Trips & Falls	Perceptual · Preconditions
HAZWOPER	Preconditions · Decision · Team comms

AI-enabled HFACS: the loop that lowers accidents

Train → Score → Certify → **Analyze (AI)** → Adjust

- **Every attempt is data.** Each VR session records which safety checks were missed, error patterns and decision timing — not just pass/fail.
- **Incidents and near-misses are classified by HFACS layer** in the Safety Insights Portal, next to your training records.
- **AI connects the two.** It correlates VR performance with your incident and near-miss trends to show which HFACS layer is driving risk, which sites, teams and modules need attention, and what to retrain next.
- **The program improves every cycle** — you fix the conditions behind incidents before they become injuries, and you can prove it at audit time.

A complete platform — not just a headset and an app

Every Humulo headset ships imaged, enrolled and ready to train, with fleet management and the training-records system included at no additional charge.

Humulo MDM

MOBILE DEVICE MANAGEMENT · INCLUDED

- **Kiosk mode** — headsets boot straight into Humulo training; trainees can't wander into settings or other apps.
- **Live fleet status** — see every headset, its site, status and usage history from one console.
- **Live view** — stream what a trainee is seeing for remote coaching and support.
- **Over-the-air updates** — new modules, fixes and configuration pushed remotely; headsets never ship back.
- **No third-party MDM subscription.** Consumer headsets need a separately purchased MDM; Humulo's is built in.
- **Built for secure sites** — training runs 100% offline; Humulo software is delivered only through its own MDM.

LMS & Safety Insights Portal

TRAINING RECORDS AND ANALYTICS · INCLUDED

- **Completion tracking** — who is certified, overdue or in progress, by team, site and module; renewals flagged before they lapse.
- **Scores and certificates** — every attempt logged per trainee with date, score and each check passed or missed.
- **VR performance analytics** — error patterns, decision timing and comprehension, beyond pass/fail.
- **Incident & near-miss logging** with HFACS classification and AI trend analysis.
- **Audit-ready exports** of OSHA-aligned training records on demand; multi-site roll-up.
- **Plugs into your LMS** via SCORM / xAPI — e.g. SAP SuccessFactors, Workday, 360Learning, Digital Chalk.

Full library
Every off-the-shelf module, plus new modules as they release

Offline
Train anywhere; records sync when the headset reconnects

Casting
Mirror up to 4 headsets to one TV for crew coaching

Multi-language
English and Spanish built in on most modules

Workshop
Collaborative 3D and Microsoft Teams (next page)

Support
Remote support, updates and 12-month hardware warranty

From box to trained crew

1 · Unbox
Headsets arrive imaged, enrolled in MDM and loaded with the full library, in a hard case.

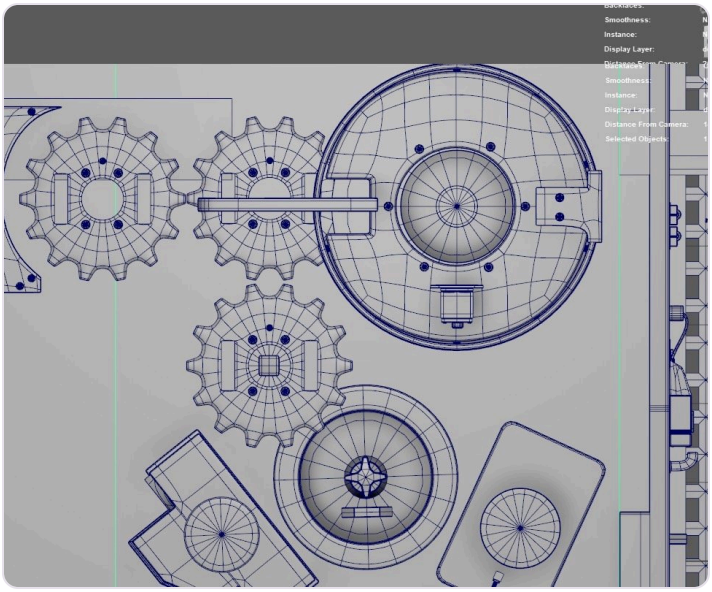
2 · Train
Power on and the trainee lands in kiosk mode. No Wi-Fi, PC or instructor needed to run a module.

3 · Record
Scores and certificates flow to the Insights Portal and your LMS when the headset reconnects.

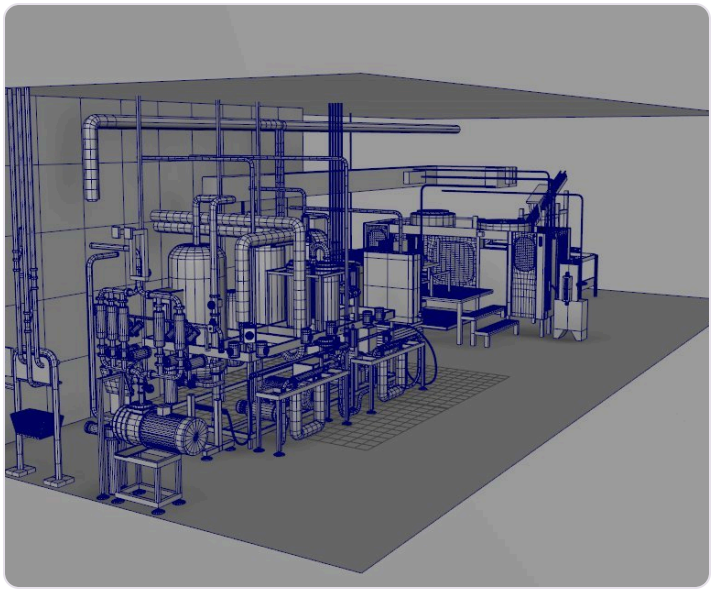
4 · Improve
AI-enabled HFACS analysis shows what to retrain; updates arrive over the air.

Your expert in every room, on every screen

Humulo Workshop is a collaborative mixed-reality platform included with Humulo. A presenter in a headset shares an interactive 3D model of your actual equipment — and anyone can explore it with them from a desktop, tablet, phone or right inside a **Microsoft Teams** meeting. No headset and no installs required for viewers.



SACMI labeler — 3D digital twin



Filler line — full environment model

How it works

- **Your equipment, your facility** — import CAD models, LiDAR scans and photogrammetry of the machines your people actually run.
- **Native Teams integration** — runs as a meeting tab with single sign-on, two-way audio and share-to-stage. Remote staff join on screen while on-site staff use headsets.
- **Every device** — VR headsets, plus AR and mixed reality on phones, iPhones and iPads; viewers join from any browser.
- **Full fidelity, low bandwidth** — the model renders locally on each device instead of streaming flattened video.

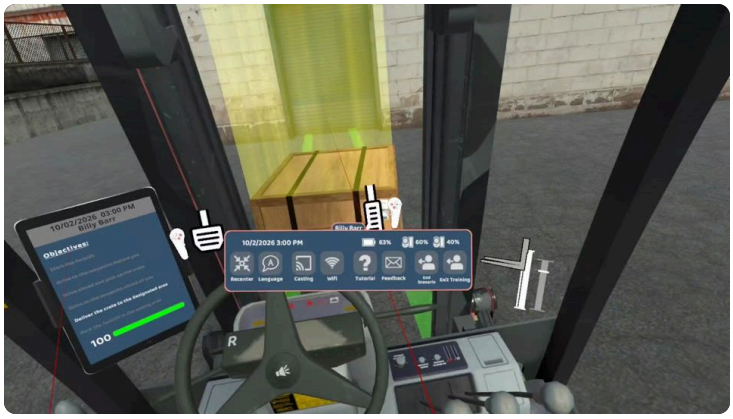
Where customers use it

- Equipment onboarding and familiarization
- Maintenance walkthroughs on the real CAD model, with subject-matter experts joining remotely
- Safety-procedure reviews and incident reconstruction
- Multi-site training without trainers traveling
- Pre-installation and layout planning
- Replacing Microsoft Dynamics 365 Remote Assist and Guides, which Microsoft is retiring in December 2026 — Workshop is device-agnostic, not tied to discontinued hardware

EQUIPMENT OPERATIONS

Forklift Fundamentals

Sit-Down Counterbalance Simulator · 6 Chapters



Sit-down counterbalance operator training in a safe-to-fail warehouse. Trainees choose a 6K or 10K truck, complete a guided seven-point pre-operation inspection, then drive from memory: reversing through obstacle courses, pedestrian traffic that responds to the horn, loaded and unloaded ramp work, weight-appropriate load selection, curbs, and shutting down inside an enclosed trailer. Mistakes cost points on the spot on the in-cab tablet, and striking a pedestrian fails the chapter. Runs on standard controllers or the optional physical wheel-and-pedal rig.

LENGTH

Approx. 35–45 min (6 chapters, taken in any order after Ch. 1)

REGULATIONS COVERED

- 29 CFR 1910.178(l) — Operator training
- 29 CFR 1910.178(m) — Truck operations
- 29 CFR 1910.178(q) — Maintenance / pre-use inspection

CERTIFICATION

Percentage score card for every chapter; Certificate of Completion when all chapters are passed.

LANGUAGES

English · Spanish

Delivers the formal-instruction and practical-training portions of 1910.178(l). OSHA still requires the employer's evaluation of each operator on the actual truck.

EQUIPMENT OPERATIONS

Battery Warehouse Forklifts

Pallet Jack · Stand-Up · Cage



Specialized powered-industrial-truck training for battery warehouse environments. Trainees operate an electric pallet jack, a stand-up truck and a cage variant, each with its own safety checks, controls and hazards — tight aisles, racking, pedestrians and battery-area precautions.

LENGTH

Approx. 30–40 min (9 lessons)

REGULATIONS COVERED

- 29 CFR 1910.178(l) — Operator training
- 29 CFR 1910.178(g) — Changing and charging storage batteries

CERTIFICATION

Scored practicals with a Certificate of Completion on passing.

LANGUAGES

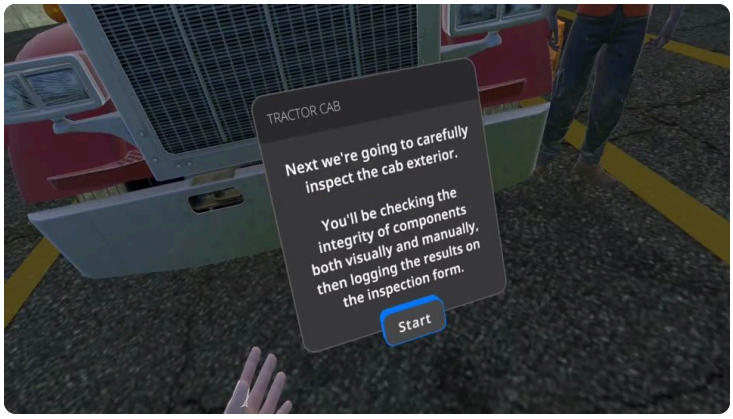
English

Employer evaluation on the actual truck is still required under 1910.178(l).

EQUIPMENT OPERATIONS

Pre-Trip Inspection

Tractor-Trailer · Air Brake Test · DVIR



The DOT pre-trip inspection a driver must complete before an 18-wheeler moves. Trainees walk the full rig — engine compartment, belts and hoses, fluid levels and leaks, lights and reflectors, tires, wheels and rims, suspension, fifth wheel, kingpin, and air and electrical lines — then run the air brake test series. Defects are written up on the DVIR and an unsafe rig stays off the road.

LENGTH

Approx. 25–35 min (8 lessons)

REGULATIONS COVERED

- 49 CFR 396.13 — Driver inspection (FMCSA)
- 49 CFR 396.11 — Driver vehicle inspection report
- 49 CFR 392.7 — Equipment inspection and use

CERTIFICATION

Completion record and Certificate of Completion logged to the trainee profile.

LANGUAGES

English · Spanish

Supports CDL pre-trip and DVIR practice; it is not a CDL skills test.

EQUIPMENT OPERATIONS

Driver Education

Passenger Vehicles · Defensive Driving



Passenger-vehicle curriculum from vehicle familiarization through city, highway and adverse conditions: defensive driving techniques, hazard recognition, pre-trip checks and emergency maneuvers for employees who drive on company business.

LENGTH

Approx. 45–60 min (multi-chapter curriculum)

REGULATIONS COVERED

- OSH Act §5(a)(1) — General Duty Clause
- OSHA / NHTSA / NETS — Guidelines for Employers to Reduce Motor Vehicle Crashes

CERTIFICATION

Scored scenarios with a Certificate of Completion on passing.

LANGUAGES

English

EMERGENCY RESPONSE

Fire Extinguisher

P.A.S.S. Technique · Fire Classes A/B/C · Fire Dojo Practice



Trainees tour a worksite identifying Class A, B and C hazards, then pull the alarm, select the correct extinguisher and fight a live virtual fire with the P.A.S.S. technique — safe distance, aim at the base, low and fast sweep. The haptic extinguisher has weight, a pin that must be pulled and a limited 10–25 second discharge. The new Fire Dojo practice mode adds randomized fires and escape practice, scaling up to fires past the incipient stage where the right call is to evacuate. Runs in mixed reality (passthrough) or full VR.

LENGTH

Certification run approx. 6–7 min · full lesson path approx. 15–20 min

REGULATIONS COVERED

- 29 CFR 1910.157(g) — Portable fire extinguisher training
- 29 CFR 1910.39 — Fire prevention plans
- 29 CFR 1910.38 — Emergency action plans

CERTIFICATION

Training lesson → quiz → scored challenge (alarm, pin, correct agent, extinguish). Certificate of Completion on passing.

LANGUAGES

English · Spanish · French

EMERGENCY RESPONSE

CPR, AED & First Aid NEW

Adult CPR · AED Use · Choking · Bleeding Control



Four lessons in mixed reality, in your own space. Trainees kneel beside a CPR manikin: check for a response, send a bystander for 911 and the AED, and give compressions with live depth and rate feedback. They open the airway, give breaths through a pocket mask, follow a talking AED through a shock, clear a choking coworker's airway, and stop severe bleeding with a tourniquet and wound packing. A scored, uncoached challenge closes it out with a random emergency in a warehouse.

LENGTH

Approx. 25–30 min (4 lessons + scored challenge)

REGULATIONS COVERED

- 29 CFR 1910.151(b) — Medical services and first aid
- 29 CFR 1926.50 — Medical services and first aid (construction)

CERTIFICATION

Scored, uncoached challenge with a Certificate of Completion on passing.

A skills refresher and readiness tool; it does not replace a hands-on AHA / Red Cross certification card.

EMERGENCY RESPONSE

Downed Power Line

Emergency Response · Shuffle Step



First-responder crash scene with live downed lines. Trainees establish safe distances, apply vehicle escape procedures and the shuffle step, protect the public and coordinate with the utility for municipal, utility and field workers.

LENGTH

Approx. 15–20 min (4 lessons + quiz)

REGULATIONS COVERED

- 29 CFR 1910.269 — Electric power generation, transmission and distribution
- 29 CFR 1910.333(c)(3) — Approach distances to overhead lines

CERTIFICATION

Scored checks and quiz with a Certificate of Completion on passing.

LANGUAGES

English

HAZARDOUS ENERGY & ELECTRICAL

Lockout / Tagout (LOTO)

Energy Isolation · Diesel Generator Challenge



A malfunctioning diesel generator. The trainee is the authorized employee: gets the supervisor's authorization, marks isolation points on the clipboard diagram, notifies the affected employee, signs and dates every tag, switches off before locking, locks before tagging, closes valves before tagging, then gets permission to clear, restores everything and test-starts the unit. Narrated training video, 9-question quiz, then the scored challenge.

LENGTH

Approx. 20–25 min (video + quiz approx. 5 min + challenge approx. 10 min)

REGULATIONS COVERED

- 29 CFR 1910.147 — Control of hazardous energy (lockout/tagout)
- 29 CFR 1910.147(c)(7) — Training and communication

CERTIFICATION

Challenge starts at 100; −5 per fault (−10 for not notifying the affected employee); 80 to pass. Certificate of Completion on passing.

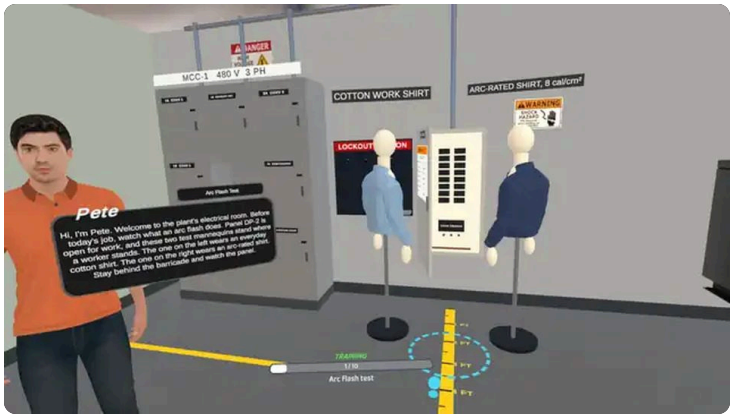
LANGUAGES

English · Spanish

HAZARDOUS ENERGY & ELECTRICAL

Electrical Safety NEW

Arc Flash · Lockout & Test · Contact Release



Four lessons in a plant electrical room, built on NFPA 70E. Trainees read an arc flash label line by line, set the barricade at the arc flash boundary, learn the limited and restricted approach boundaries, and dress from a PPE cart for the label's incident energy. They put a motor starter in an electrically safe work condition — one-line diagram, notify, stop, open the disconnect standing to the side, lock and tag, try to start, live-dead-live test. A coworker caught on a live circuit teaches contact release. A scored, uncoached challenge uses a random work order and label.

LENGTH

Approx. 30–40 min (4 lessons + scored challenge)

REGULATIONS COVERED

- 29 CFR 1910.332 — Training (electrical)
- 29 CFR 1910.333 — Selection and use of work practices
- 29 CFR 1910.335 — Safeguards for personnel protection
- NFPA 70E — Electrical safety in the workplace

CERTIFICATION

Scored, uncoached challenge with a Certificate of Completion on passing.

The employer still designates qualified persons under 1910.332.

HAZARDOUS ENERGY & ELECTRICAL

Solar Field Installation

Renewable Energy Safety



Safety procedures for photovoltaic installation and maintenance: fall protection at elevation, arc flash awareness, electrical isolation of PV sources and emergency procedures specific to solar field operations.

LENGTH

Approx. 20–30 min

REGULATIONS COVERED

- 29 CFR 1926.501 / 1926.502 — Fall protection
- 29 CFR 1910.333 — Electrical work practices
- NFPA 70E — Arc flash

CERTIFICATION

Scored scenario with a Certificate of Completion on passing.

LANGUAGES

English

WORKING AT HEIGHT

Fall Protection

Harness · Anchor Points · Climbing Simulator · 5 Levels



Hazard identification at elevation, harness inspection and donning, anchor point selection and a climbing simulator with crane-climbing and welding-repair scenarios. Workers experience the consequences of incorrect harness use safely. Multi-person mode emphasizes 100% tie-off.

LENGTH

Approx. 30–40 min (5 levels)

REGULATIONS COVERED

- 29 CFR 1926.501 / 1926.502 — Duty to have fall protection; systems criteria
- 29 CFR 1926.503 — Fall protection training
- 29 CFR 1910.140 — Personal fall protection systems

CERTIFICATION

Scored levels and quiz with a Certificate of Completion on passing.

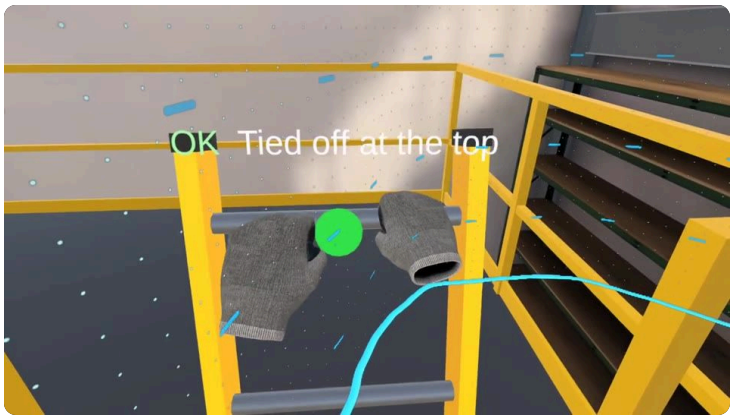
LANGUAGES

English · Spanish

WORKING AT HEIGHT

Ladder Safety NEW

Extension Ladder Inspection, Set-Up & Climbing



Three lessons on extension ladders, in mixed reality in your own space. Trainees inspect two ladders and tag the damaged one "Do Not Use", set the base at 4:1, extend the ladder 3 feet above the landing and tie off the top. Then they climb hand over hand with tools on their belt, keeping three points of contact. A scored challenge closes it out: choose a safe ladder and a safe spot, with a different defect every time.

LENGTH

Approx. 20–25 min (3 lessons + scored challenge)

REGULATIONS COVERED

- 29 CFR 1926.1053 — Ladders
- 29 CFR 1926.1060 — Ladder training requirements
- 29 CFR 1910.23 — Ladders (general industry)

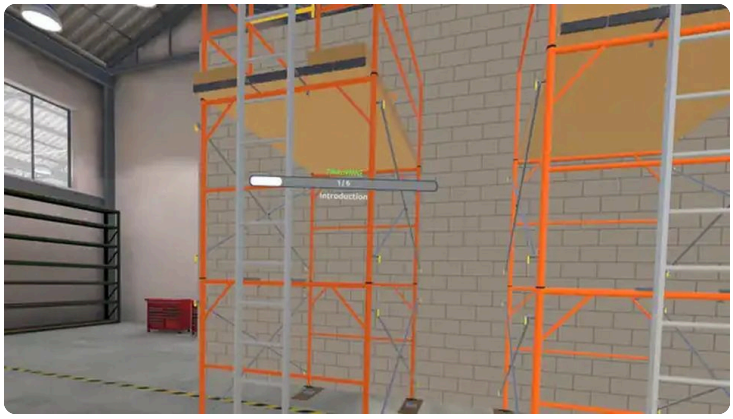
CERTIFICATION

Scored challenge with a Certificate of Completion on passing.

WORKING AT HEIGHT

Scaffolding Safety NEW

Frame Scaffold Inspection, Tagging & Work at Height



Three lessons on frame scaffolds, in mixed reality in your own space. Trainees inspect a scaffold, tag it out of service and fix what they find — a base plate on loose bricks, an open brace lock and a missing plank — then return it to service with a green tag. They climb the access ladder (never the cross braces) with a drill on their belt and work from the deck without leaning over the guardrails. A scored challenge: inspect and tag two scaffolds, then work from the safe one, with a different defect every time.

LENGTH

Approx. 20–25 min (3 lessons + scored challenge)

REGULATIONS COVERED

- 29 CFR 1926.451 — Scaffolds: general requirements
- 29 CFR 1926.452 — Additional requirements by scaffold type
- 29 CFR 1926.454 — Scaffold training requirements

CERTIFICATION

Scored challenge with a Certificate of Completion on passing.

WORKING AT HEIGHT

Slips, Trips & Falls

Walking-Working Surfaces · Housekeeping



Hazard identification for walking-working surfaces, housekeeping protocols and corrective action in realistic industrial environments.

LENGTH

Approx. 10–15 min

REGULATIONS COVERED

- 29 CFR 1910.22 — Walking-working surfaces: general requirements
- 29 CFR 1910 Subpart D — Walking-working surfaces

CERTIFICATION

Scored checks with a Certificate of Completion on passing.

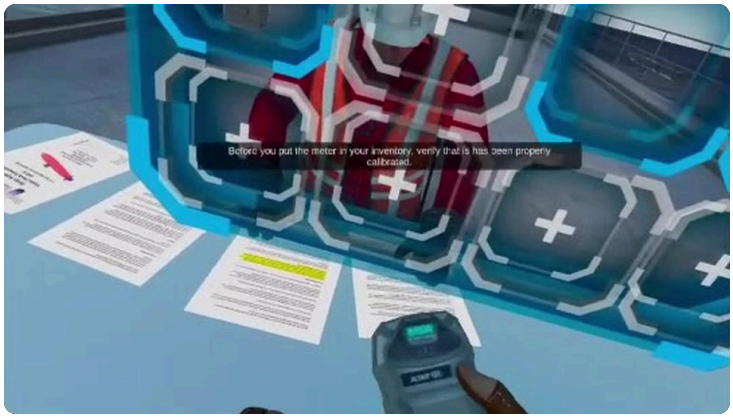
LANGUAGES

English

HAZARD RECOGNITION & HEALTH

Confined Space Entry

Entrant + Attendant · Atmospheric Testing · Permits



Permit-required confined space training in two scenarios: the entrant, set on a dry-docked ship, and the attendant, set at a vertical manhole. Teams practice atmospheric monitoring, entry permits, communication and rescue procedures, with each role trained separately.

LENGTH

Approx. 25–35 min (entrant + attendant scenarios)

REGULATIONS COVERED

- 29 CFR 1910.146 — Permit-required confined spaces
- 29 CFR 1926 Subpart AA — Confined spaces in construction

CERTIFICATION

Scored checks and quiz for each role with a Certificate of Completion on passing.

LANGUAGES

English · Spanish

HAZARD RECOGNITION & HEALTH

HAZWOPER / HAZCOM

GHS Labels · SDS · Spill Response



Hazardous materials identification, the GHS labeling system, Safety Data Sheet interpretation and emergency spill response. A multi-player scenario is available for team-based hazmat response.

LENGTH

Approx. 30–40 min (12 lessons + quiz)

REGULATIONS COVERED

- 29 CFR 1910.120 — HAZWOPER
- 29 CFR 1910.1200 — Hazard communication

CERTIFICATION

Scored checks and quiz with a Certificate of Completion on passing.

LANGUAGES

English

Supports, but does not replace, the hours-based HAZWOPER training required for site workers under 1910.120(e).

HAZARD RECOGNITION & HEALTH

General Hazards / Site Safety

OSHA Focus Four · HAZCOM Symbols



Guided and unguided walkthroughs to identify, categorize and correct workplace hazards, covering the Focus Four — caught-in/between, electrocution, falls and struck-by — plus HAZCOM standard symbols and a worksite inspection challenge.

LENGTH

Approx. 25–30 min (10 lessons + quiz)

REGULATIONS COVERED

- 29 CFR 1926.501 — Falls
- 29 CFR 1926 Subpart K — Electrical (construction)
- 29 CFR 1910.1200 — Hazard communication
- OSH Act §5(a)(1) — General Duty Clause

CERTIFICATION

Scored checks and quiz with a Certificate of Completion on passing.

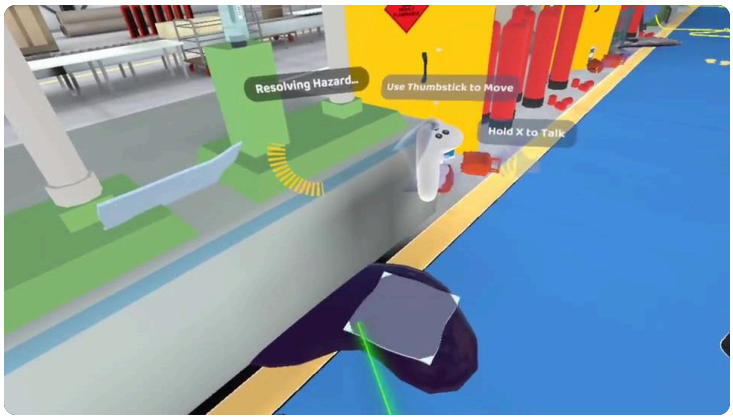
LANGUAGES

English · Spanish

HAZARD RECOGNITION & HEALTH

Hazard Hunt

Timed Facility Walkthrough



An interactive facility walkthrough where trainees find and tag electrical, chemical, ergonomic and physical hazards against the clock, with progressive difficulty and real-time scoring. Ideal for new-hire onboarding.

LENGTH

Approx. 10–15 min

REGULATIONS COVERED

- OSH Act §5(a)(1) — General Duty Clause
- 29 CFR 1910.22 — Walking-working surfaces

CERTIFICATION

Real-time score and Certificate of Completion on passing.

LANGUAGES

English

HAZARD RECOGNITION & HEALTH

Hand Safety

PPE Selection · Pinch Points · Machine Guarding



PPE selection for hand protection, pinch-point awareness, machine guarding requirements and proper glove use for industrial environments.

LENGTH

Approx. 15–20 min (6 lessons)

REGULATIONS COVERED

- 29 CFR 1910.138 — Hand protection
- 29 CFR 1910.212 — Machine guarding
- 29 CFR 1910.132 — PPE general requirements

CERTIFICATION

Scored checks with a Certificate of Completion on passing.

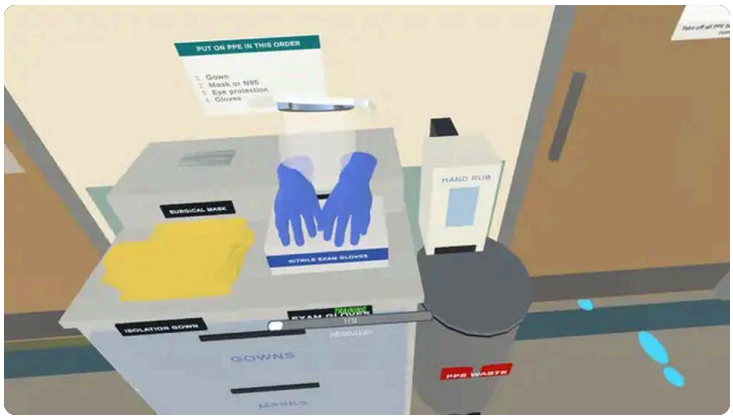
LANGUAGES

English

HAZARD RECOGNITION & HEALTH

PPE Donning & Doffing NEW

Hand Hygiene · Isolation Precautions · N95



Four lessons in a hospital isolation unit, built on CDC guidance. Trainees read the isolation sign, perform a full 20-second hand rub, and don a gown, surgical mask, face shield and gloves in the right order. After patient care they doff safely — gloves first, eye protection, gown rolled inside out, mask by its loops — touching only clean surfaces. They learn contact, droplet and airborne precautions and put on an N95 with a user seal check. A scored, uncoached challenge uses a random isolation sign and task.

LENGTH

Approx. 20–25 min (4 lessons + scored challenge)

REGULATIONS COVERED

- 29 CFR 1910.132 — PPE general requirements (training at 1910.132(f))
- 29 CFR 1910.134 — Respiratory protection
- 29 CFR 1910.1030 — Bloodborne pathogens

CERTIFICATION

Scored, uncoached challenge with a Certificate of Completion on passing.

Complements, but does not replace, the annual N95 fit test required under 1910.134.

HAZARD RECOGNITION & HEALTH

Ergonomics & Safe Lifting

Musculoskeletal Injury Prevention



Proper lifting technique, workstation setup, repetitive-motion awareness and musculoskeletal injury prevention. Interactive scenarios teach body mechanics for common industrial tasks.

LENGTH

Approx. 20–25 min (8 lessons)

REGULATIONS COVERED

- OSH Act §5(a)(1) — General Duty Clause
- NIOSH Revised Lifting Equation (guidance)

CERTIFICATION

Scored checks with a Certificate of Completion on passing.

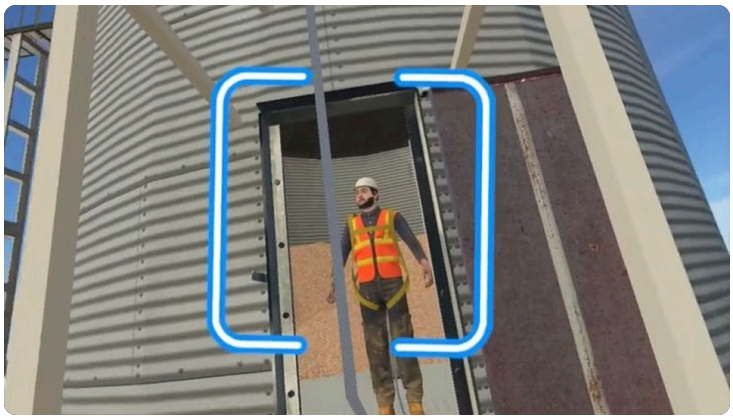
LANGUAGES

English

HAZARD RECOGNITION & HEALTH

Grain Bin Safety

Engulfment · Lockout · Rescue



Grain bin entry hazards, engulfment prevention, lockout procedures and rescue operations, with progressive, randomized dangers and rescue-team coordination.

LENGTH

Approx. 15–20 min (5 lessons)

REGULATIONS COVERED

- 29 CFR 1910.272 — Grain handling facilities
- 29 CFR 1910.146 — Permit-required confined spaces
- 29 CFR 1910.147 — Lockout/tagout

CERTIFICATION

Scored checks with a Certificate of Completion on passing.

LANGUAGES

English · Spanish

Your procedures, your equipment, in VR

When a topic isn't in the library — or you need it on your own machines and your own procedures — Humulo builds it. Custom modules run on the same headsets as the standard library, with the same scoring, certificates, MDM and LMS reporting.

1 · Material review

We work from what you already have — SOPs, JHAs, drawings, photos, CAD, video. No on-site visit required to start.

2 · Storyboard approval

You approve a wireframe of every step, check and failure scenario before development begins.

3 · Build

Environments, equipment models and scoring are developed in parallel, with your team reviewing progress.

4 · Pilot & deploy

Your trainees run it, we tune it, then it deploys over the air to every headset in your fleet.

Days
to customize an existing module — your lock styles, signage, terminology, language

~6 weeks
typical for a new custom module

12–14 weeks
for highly complex manufacturing environments

Custom topics we've built

Custom LOTO on live bottling lines

MAJOR COCA-COLA BOTTLER

Machine-specific lockout/tagout for Modes of Operation, a SACMI labeler and a filler, built from on-site scans as digital twins. Bilingual English/Spanish, SCORM-integrated with SAP SuccessFactors, deployed across 7 manufacturing sites.

Infection-control PPE donning & doffing

NIH (NIAID) & MAKERERE UNIVERSITY, UGANDA

Controller-free PPE training for health workers during COVID-19 — no wires, simple enough for any trainee. Results published in the peer-reviewed journal *BMC Medical Education* (2022).

Submarine confined-space entry in dry dock

U.S. NAVY SHIPYARD ENVIRONMENT

Permit-required confined-space entry aboard a submarine in dry dock, built with former Navy submariners who have worked in the shipyards.

Dry-dock fall protection

U.S. NAVY SHIPYARD ENVIRONMENT

Fall hazards, anchorage and edge protection in a dry-dock setting, alongside the shipyard confined-space scenario.

Equipment digital twins for Workshop

MANUFACTURING

Labeler and filler-line models delivered into Humulo Workshop for remote onboarding and maintenance reviews over Microsoft Teams.

Your topic next

SCOPED FROM YOUR MATERIALS

Send an SOP or JHA and we'll scope the module — environment, steps, scoring and certificate — before any commitment.

Physical forklift controls



Sit-Down Forklift Wheel & Pedals

Counterbalance steering wheel with accelerator and brake pedals; desk-mount or with the sim chair. Pairs with Forklift Fundamentals.



Stand-Up Forklift Controls

Steel stand-up console for reach truck and order-picker training. Unlocks the Standing Forklift Rig module (OSHA 1910.178), calibrated each session.

Need a topic that is not here?

See Custom Topic Creation on the previous page. Humulo builds modules on your own equipment and procedures, delivered on the same headsets with the same scoring and certificates.

HUMULO VR TRAINING

Schedule a live demo

(443) 295-3706 · info@humulo.com · humulo.com

Humulo Engineering, LLC · 29 Wilelinor Dr, Edgewater, MD 21037 · SDVOSB

CAGE 833T8 · UEI CDTVMA9AB3H3