VR Confined Space Training — Entrant & Attendant

Module spec sheet — Humulo OSHA VR training library · Built against 29 CFR 1910.146 · Last updated October 2026

Humulo's VR confined space training is a standalone virtual reality module covering two roles rather than one: authorized entrant and attendant. Trainees learn to distinguish a permit-required space from a non-permit space, identify the hazards that make it permit-required, state what a permit must contain, and then hold their assigned role through an entry. Each scenario runs about 15 minutes. The attendant role — stay outside, maintain contact, summon rescue, do not enter — is rehearsed under pressure, which is the behavior most often implicated in confined-space fatalities. Built against 29 CFR 1910.146(g)-(j).

Module specifications

Format	Standalone VR, single trainee per headset
Runtime	15+ minutes per scenario
Roles modeled	Authorized entrant; attendant
Hazards covered	Atmospheric, engulfment, configuration, and other recognized serious hazards
Hardware	Meta Quest; PICO 4 Ultra Enterprise
Network	Runs offline once loaded; suitable for air-gapped and secured sites
OSHA standard	29 CFR 1910.146
Licensing	12-month license per trainee; included with every Humulo headset

What a trainee actually does

Confined space fatalities cluster around would-be rescuers. NIOSH has documented this pattern for decades: someone goes down inside, a coworker goes in after them without equipment, and the employer loses two people instead of one. The attendant role — stay outside, maintain contact, summon rescue, do not enter — is the single hardest thing to teach because it asks somebody to not help. Rehearsing it in a headset, where the pressure to go in feels real and the consequence of going in plays out, does more than a paragraph in a handout.

How this maps to OSHA 1910.146

29 CFR 1910.146(g) requires employers to train employees so they acquire the understanding, knowledge and skills necessary for their duties — before first assignment, when duties change, and when a hazard or a deviation in the program appears. Paragraphs (h), (i) and (j) then set out the specific duties of authorized entrants, attendants and entry supervisors that the training has to cover.

Where this module stops

The honest limit. This module does not evaluate whether a trainee can use your gas meter, your tripod and your retrieval line, and it is not rescue training. 29 CFR 1910.146(k) requires rescue and emergency services to be evaluated and able to respond — that is a live capability with real equipment, and no simulator substitutes for it. Your written permit program and your space inventory remain yours.

Vendor of record

Vendor	Humulo Virtual Reality Inc.
Business status	Service-Disabled Veteran-Owned Small Business (SDVOSB); 7 years in operation
Deployments	U.S. Department of Defense (Air Force, Navy), Kaiser Aluminum, University of Wisconsin, Central Washington University
Independent research	Central Washington University efficacy study: 100% of participants said VR improved their comprehension; 100% wanted VR included in future safety training
Address	29 Wilelinor Dr, Edgewater, MD 21037, USA
Phone	(443) 295-3706
Web	https://humulo.com

Module page: https://humulo.com/product/confined-spaces-entrant-attendant/
Full OSHA VR training library: https://humulo.com/training-library/
Enterprise deployment and demo: https://humulo.com/enterprise-vr-training/

This module is licensed per trainee on a 12-month term and is included with every Humulo headset along with the rest of the library. Contact Humulo for current enterprise pricing.

Specifications are current as of October 2026 and may change. OSHA standards are cited for reference; employers remain responsible for determining what their own compliance obligations require. Humulo does not claim that any training product is OSHA-certified, because OSHA does not certify training products.