

Virtual Reality Safety Training

What we do

Build visually rich 3D interactive, immersive custom simulations for safety training.

- Visualize safety hazards, emergencies, disasters in compelling 3D virtual training simulations
- Provide Virtual Reality hardware needed for immersive, interactive safety training
- Install full system onsite and train your staff in operation



How it works

Users literally walk through the virtual training environment in full scale and interact with virtual objects in real-time. Wearing only a head-mounted display (HMD), clients are immersed in 3D stereoscopic virtual worlds and free to walk and explore naturally. A dedicated tracking system synchronizes movement in the real world with movement in the virtual world. Thus, users can walk freely and interact with the virtual world. WorldViz graphics designers and software engineers create custom designed virtual training worlds per your requirements.



Applications

- Safety management training
- Regulatory compliance training
- Education & training aids
- Workplace security training
- Risk management training
- Workplace violence prevention training

Your benefits

- Experience a stunning sense of reality
- Simulate safety hazards, emergencies, disasters as if they were happening now
- Physically act out interactive training procedures in realistic 3D scenarios
- Apply classroom knowledge in immersive virtual training environments
- Change simulations dynamically depending on user performance
- Play back recorded session for after-action reviews

Who we are

Industry leader in fully immersive interactive Virtual Reality solutions.

- Simulations for industry, government, academia
- Programming, graphics design, hardware included
- Proven record with leading industry & government clients
- Expert training & support (Smart, responsive, personal)
- Full system integration. Onsite installation

Virtual Reality System Hardware Components

WorldViz provides robust VR hardware that is within your budget requirements.

- Optical-inertial head tracking system for any training room size
- Stereo head-mounted displays
- 3D sound system
- Software platform



Interaction

Training participants can naturally interact with virtual environments by wearing haptic gloves or using devices similar to joysticks. Even complex manufacturing or maintenance procedures can be accurately trained step by step, for example welding or aircraft safety checks.



After-action reviews can be an integral part of the VR scenario training. They are facilitated by playing back recorded sessions on a regular screen or wide field-of-view theater. In addition, the participants' trial parameters and qualitative scores are recorded in a user database module for reference and analysis.



Immersion

is a key quality to ensure the transfer of skills from training scenarios to real-life situations. Immersive applications allow training participants to literally walk through and interact with the virtual world wearing a head-mounted display (HMD). The 3D environments are visually rich and contain technically accurate models of the physical objects needed for training, such as hazardous materials or equipment.



Dynamic simulations

Depending on how individual users interact with a virtual environment, its parameters can instantly change dynamically. For example, the difficulty level of a training world can change depending on the performance level of a user. The simulations challenge the participants to exercise their **situational awareness** and employ their classroom experience in a dynamic environment.

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