



sify'

**NEW AGE
DIGITAL**

TECHNOLOGIES

for Improved Training, Process
and Performance



What is Augmented and Virtual Reality?

Augmented Reality (AR) and Virtual Reality (VR) solutions are designed to transform the real-world environment into a digital interface by overlaying virtual objects, both 2D and 3D, in real-time. These new-age technologies are not only greatly impacting business outcomes for organizations, but also the lives of their workforce across the industries of Engineering, Manufacturing, Aerospace, Construction, Healthcare, Pharmaceuticals, Medical Devices, Oil & Gas, Technology & Telecommunications and Retail.



Why use AR and VR?

AR and VR can alter our interactions with machines and digital systems that we handle daily. With these technologies, organizations have established avenues for improving their key performance indicators including operational efficiency, process optimization and workforce performance (quantity, quality, speed, and flexibility), enhanced safety, and reduced sales cycle and overall cost.

Advantages of AR and VR training include:

34%

increase in productivity of factory workers performing complex tasks¹

96%

reduction in inspection time during ship manufacturing²

70%

drop in employee injuries and 90% reduction in ergonomic issues³

30-50%

improvements in training time to ramp up new front-line workers at manufacturing sites⁴

Industry Use Cases for AR and VR

- Support workforce operations during installation, configuration, inspection, maintenance, troubleshooting and replacement of working parts.
- Onboard new hires faster to help them adopt new job skills with AR instructions and remote supervision.
- Familiarize manufactured products with customers through immersive product experience.
- Virtual visualization of the manufacturing process with tools and machines at their true scale.
- Simulated production facilities, manufacturing plants, warehouse for orienting new employees.
- AR-based standard procedural instructions to ensure operational and safety compliance at worksites.

Sify's AR and VR Solutions Expertise

With our expertise on these cutting-edge solutions, we offer a unique set of skills to develop and deliver highly immersive and engaging learning experiences. We design highly customized solutions for our customers including the following solutions:

AR Solutions

- ARKit-based apps for iOS Devices
- ARCore-based apps for Android Devices
- Applications for AR Smart Glasses (e.g. Vuzix)
- Applications for AR Holographic Glasses (e.g. HoloLens)



VR Solutions

- Smartphone-based VR Solutions for iOS and Android Devices (e.g. Google Cardboard, Samsung Gear VR)
- Standalone VR Device-based Solutions (e.g. Oculus Go)
- PC-based VR Solutions (HTC Vive, Oculus Rift)
- Haptic Glove-based VR Solutions (HTC Vive-Manus VR Gloves)
- 360° VR Videos for iOS/Android/stand-alone VR devices

The Value of AR and VR

- On-the-Job assistance and remote on-demand expertise and support through live videos
- Contextualized step-by-step work instructions
- Real time diagnostics and feedback during manufacturing operations
- Reduced rework, quality and non-conformance issues.
- Increased first-time fix rates and production efficiency.
- Accelerated onboarding and faster learning curve for trainees.
- Higher sales win rates through better product visualization for customers



Immersive AR and VR training help reduce the risk and cost associated with errors. Routine and complex training procedures can now be readily learned and practiced without risk. For a consultation with an expert contact us at learning.sales@sifycorp.com

About Sify eLearning

As award-winning leaders in new technology and innovation, we create highly immersive and engaging learning solutions for improving training, process, and performance. We can design new courses for you or simply transform your existing training courses into an immersive AR or VR format.

