

Yokogawa Augmented and Virtual Reality Operator Training Simulator

Training Solutions



What We Offer

- A managed service model for total system maintenance and upkeep
- 3D Modelling
- Virtual Reality/Augmented Reality Operator Training System (OTS) development and configuration
- System customization for Standard Operating Procedures (SOP) involving field, Distributed Control System (DCS), maintenance, safety operations and Occupational Health and Safety (OHS) integration
- Training programs
- Learning pedagogy and reports

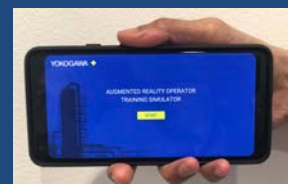
Augmented and Virtual Reality: The New Training Revolution

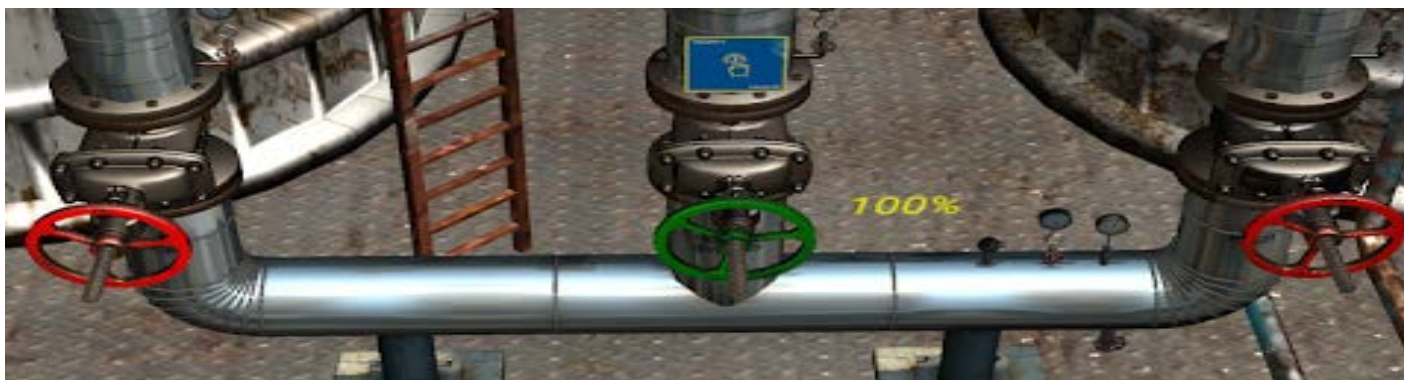
Virtual reality (VR)

is an artificial, computer-generated environment where one's experiences are simulated. It immerses the user in a virtual surrounding, primarily through visual, auditory and sensory feedback. VR is typically achieved by wearing a headset like Facebook's Oculus.

Augmented reality (AR)

is a technology that blends computer-generated digital components into the real world, enhancing what we see, hear and feel. AR can be developed into apps and used on mobile devices.





Benefits of VR and AR OTS

- Optimize training throughout the plant
- Reduce time taken to achieve operator proficiency
- Improve operator's ability to respond in time and act appropriately to emergency scenarios
- Improve skills for rarely performed but safety-critical tasks
- Maximize team training, co-ordination and communications between the control room and the field
- Reduce unnecessary shutdowns and reduced plant performance due to operator error
- Capture operator knowledge and best practices

VR and AR OTS Applications

- Operations Management:
 - Plant/units start-up and safe shut-down operations and sequences using standard operating procedures
 - Assessment and refreshing operators' competency base on company standards, regulatory and statutory requirements
 - Reports on the operators' training and assessment performances against key performance index
- Maintenance Management:
 - High risk maintenance activities and procedures under permit to work controls such as hot work in hazardous area, confined space, work at heights and heavy lifts
- Emergency Management:
 - Simulate OHS, process safety incidents and response plan training and assessment

YOKOGAWA ENGINEERING ASIA PTE. LTD.
5 Bedok South Road, Singapore 469270
Tel: (65)6249 3608 Email: Training.Centre@sg.yokogawa.com

Subject to change without notice.
All Rights Reserved. Copyright © 2019, Yokogawa Engineering Asia Pte. Ltd.