Operator and Immersive Training Simulators Technology Selection Guide

TECHNOLOGY SELECTION GUIDANCE WITH COMPREHENSIVE EVALUATION CRITERIA

MAKE INFORMED, FACT-BASED OTS & ITS TECHNOLOGY SELECTIONS

This guide will help organizations select the best Operator Training Simulator (OTS) and Immersive Training Simulator (ITS) technology and services for their business requirements. This guide contains guidance, specific selection criteria, adoption factors, and supplier profiles to help make insightful decisions, reduce technology decision-making risks, and address training requirements.

Companies are looking for solutions designed to train process operators and other types of workers in process manufacturing plants and other industrial plants quickly and effectively. The guide includes information about software technologies, tools, and methodologies, including both high-fidelity solutions that replicate plant operations exactly and generic process- or application-specific simulators.

Training simulation systems considered in the guide include 2D, 3D, generic high-fidelity, dynamic high-fidelity, and immersive virtual reality-type solutions.

Many experienced operators and industrial workers are retiring and knowledge transfer is a factor driving training simulator solutions. Users need training that helps them learn quickly and increases safety. Workers need to feel confident that they can respond to abnormal conditions and avert potential disasters. Suppliers are responding with dynamic high-fidelity solutions that include 2D, 3D, and immersive reality training. Console training simulators are being linked to field training simulators using newer technologies such as immersive virtual reality and mobile applications.

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STRATEGIC ISSUES

This supplier selection guide provides an in-depth analysis of OTS and ITS technology for process manufacturing by industry segment and geographic region. In addition, it provides insightful analysis of key market issues and technology capabilities that will impact manufacturers now and in the future. Strategic questions addressed in the study include:

- What are some of the key technologies that users are implementing?
- What OTS and ITS functions and features should be considered?
- What new technologies for OTS and ITS are important? How are mobility, cloud, and IoT affecting the technology?
- Which functional categories are growing the fastest? And from which suppliers?
- How will new technologies improve operator worker retention?

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SUPPLIER PROFILES
Profiles for major suppliers servicing the OTS/ITS market are included. Each profile reviews the company's business, products, and services.

Global Operator Training Simulators Improves Learning Retention Rate (Source: NTL)

Learning Retention Rates

Simulation — 78
Audiovisual — 20
Reading — 10
Lectures — 5

Percent

Source: NTL Institute for Applied Behavioral Science

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