

Competency Assurance



Build Operational Competencies to Improve Plant Safety and Drive Business Profitability

OVERVIEW

KBR's Competency Assurance program aims to upgrade the knowledge and develop the skill set of the plant operators through the provision of best-in-class training in KBR's technologies. The solution is tailored to support the safety, reliability, and operational needs of the plant by developing operator skills to achieve a safe, reliable, first-quartile operational performance, for all facilities that employ KBR Process Technologies.

This KBR Competency Assurance program is composed of two key elements: a high-fidelity custom KBR OTS, or a Cloud-based KBR e-Learning Solution as training platform and the KBR Instructor-led Training Services. A major component of both solutions is the KBR Operator Training Simulator (OTS) which covers all major industries- Liquefied Natural Gas (LNG), Oil & Gas, Refinery, Fertilizer, Chemical, Olefins, and Polymers.

VALUE DRIVERS



Highly accurate systems with experience base in both steady-state and dynamic modeling



Dedicated, versatile staff with experience in all aspects of process design and design of OTS systems



Capability to work with any software and hardware, thereby providing clients with a range of cost-benefit options from a single source



Strong synergy of expertise, combining process simulation experience with in-house process and control systems and process operations experience



OTS features and functions are customized to the training requirement of the actual process rather than a generic one-size-fits-all approach

KBR COMPETENCY ASSURANCE

BENEFITS

- Develop an understanding of the process unit operations and interactions between inter-connected sections of the unit
- Test operating procedures before they are used on the actual plant to identify and eradicate any shortcomings
- Experience indicates that the time taken to train a new operator is reduced from 2-3 years to 6-12 months
- Train operators to identify, diagnose, and manage abnormal situations that may occur during plant operations and impact production
- Faster and more efficient process unit start-ups promoted by enabling the operations staff to repeatedly practice the start-up procedure from empty and ambient conditions to full production

ABOUT THE SOLUTION

KBR E-LEARNING SOLUTION

KBR e-Learning Solution accelerates training initiatives with ready-made simulation-based courses for industrial processes and operations. It is accessed via a cloud-based portal reducing the cost of training as hardware, and travel are minimized. A Cloud-based solution provides easy access anytime, anywhere, and reduces time for competency development.

The e-Learning competency assurance program is accessible via subscription. The training can be self-paced by the trainees with options for KBR instructor-led training with e-Learning solution.

KBR INSTRUCTOR-LED TRAINING

The KBR instructor-led training can be delivered either on-site in a classroom or simulation/training room format, or remotely with virtual classroom environment via MS Teams or WebEx. This integrated training program is jointly conducted by KBR process expert and KBR OTS experts, and is based on training modules customized as per the plant site and OTS system, which is broken down into four different types of operations: normal, start-up, shutdown, and upset/emergency, and covers:

- Normal operations
- Critical steps of the plant startup procedure
- Key steps of the plant shutdown procedures
- Critical abnormal situations

KBR OPERATOR TRAINING SIMULATOR (OTS)

A KBR OTS can be designed and deployed as a stand-alone or cloud-based system containing customized dynamic models of all major process units of the plant. The OTS use rigorous first-principles models and simulate the operation of the plant, in real-time. With KBR proprietary information embedded, the KBR OTS is of the highest quality for KBR technologies. In addition to the training function, the KBR OTS can also be used for engineering evaluations such as 'what-if' studies and tests for control system changes

About KBR

ABOUT KBR, INC.

We deliver science, technology and engineering solutions to governments and companies around the world. KBR employs approximately 28,000 people performing diverse, complex and mission critical roles in 34 countries.

KBR is proud to work with its customers across the globe to provide technology, value-added services, and long-term operations and maintenance services to ensure consistent delivery with predictable results.

At KBR, We Deliver.

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