Honeywell’s UniSim® Curriculum is part of the comprehensive UniSim Competency Suite, which helps better train today’s industrial workforce. This solution provides a framework for Operator Competency Management.

**The Challenge: Managing Operator Competency**

In today’s challenging business environment, industrial assets need to be managed to deliver safe and sustained performance with improved production capacity and efficiency.

Managing a workforce to ensure it has the correct level of competency to work safely and effectively is a significant challenge in today’s fast moving environment particularly when external pressures are leading to early staff retirements, regulatory requirements are becoming stricter and there is a trend toward increased operational complexity.

A solution helps address these factors by accelerating new operator understanding and control of plant operating conditions to the level of a veteran, and that allows all staff the opportunity to reach their full potential. Deploying the solution within a Competency Management Framework delivers additional benefits.

**The Opportunity: Plan and Deliver a Structured Competency Management System**

Companies are tasked to prepare people with a range of abilities to become the control room operators of the future. They have the additional challenge of retaining those abilities over the lifetime of the asset.

Personnel need to acquire and demonstrate a combination of knowledge, skills and behaviors – the job competencies – before being allowed to operate the plant. The matrix of roles, responsibilities and competencies for an operator serve to define a competency model. This model is used to develop training interventions that provide the learning opportunity for operators to acquire the required proficiency for a particular job function. The training program will also provide the instructor with the assessment tools needed to measure progress of individuals, shifts and sites as they progress toward achieving their goals.

Aligning training outcomes with business goals and connecting the activity to other business processes like performance management helps to create a powerful circle of continuous improvement. Structured programs provide a framework of best practice. Everyone can benefit from lessons learned as ideas are captured within a sustainably managed process.

Optimizing the value of training investment across the enterprise with the support of established business processes is a key success factor enabled through a structured program.

**The Solution: UniSim Curriculum**

Honeywell’s UniSim® Curriculum is a tool for managing the competency of today’s industrial workforce. It is a computing platform that utilizes research from the Abnormal Situation Management® (ASM®) Consortium. This group of leading operating companies, universities and consultants is focused on
developing solutions to the challenges of avoiding and mitigating the effects of abnormal situations in the process industries. This includes mapping measured and observed behavior against UniSim Curriculum as an assessment of field and console operator competency.

UniSim Curriculum is part of Honeywell’s comprehensive UniSim Competency Suite, which includes robust solutions to better train the industrial workforce for safe, incident free and efficient startups and operations. In addition to UniSim Curriculum, the suite includes: UniSim Operations (versatile operator training simulator), UniSim Tutor (powerful knowledge capture and propagation tool), UniSim Field View (2D solution for Field Operator Training) and UniSim 3D Connect (secure simulator integration and connectivity to a 3D virtual environment).

The UniSim Curriculum is centered on the ASM competency model, which is structured as a collection of foundational, core field and console operator competencies within a client/server deployment model. The server library is fully pre-configured and ready to deploy immediately. Its powerful user tools allow instructors to edit and update the competency library as required, including adding roles, responsibilities and competencies to site circumstances.

In addition, the instructor is able to view the progress of individuals, shifts and sites using the graphical Human-Machine Interface (HMI) of the client application. The user configures training interventions and associated assessment activities to complete the structured training program.

Benefits to Customers

A comprehensive Operator Competency Model is at the heart of a proven process for accelerating and maintaining operator performance. The model is customizable and is focused on skills, knowledge and behavior training designed to deliver important business results.

- Accelerate knowledge transfer to operators
- Deliver earlier operating profits with faster start-ups
- Protect profits through incident avoidance
- Protect plant assets and the environment

In short, the integrated UniSim Curriculum yields substantial financial returns and is an indispensable part of a company’s plant technology infrastructure.

Hardware and Software Requirements

UniSim Competency Suite is supplied for use on physical or virtual workstations running under Windows® workstation and server operating systems.

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Release R440</th>
<th>Release R441</th>
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<tbody>
<tr>
<td>Windows 7</td>
<td>32 and 64 bit</td>
<td>64 bit</td>
</tr>
<tr>
<td>Windows 8</td>
<td>32 and 64 bit</td>
<td>64 bit</td>
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<td>Windows 8.1</td>
<td>32 and 64 bit</td>
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<tr>
<td>Windows Server 2008</td>
<td>SP2 32 bit</td>
<td>R2 SP1 64 bit</td>
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<tr>
<td>Windows Server 2012</td>
<td>Standard</td>
<td>Standard R2 Standard</td>
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For most applications, a network of workstations will be supplied to host the instructor station, engineering station and process/control simulators. Linkages to DCS systems are provided using appropriate hardware and software.
Why Honeywell?

Honeywell provides a comprehensive range of services for the supply of Competency Management Solutions: project management, cost control, planning, purchasing of associated computer platforms and DCS consoles, model building, acceptance testing, training courses, documentation and operational support. Staffed by specialists in process engineering, control systems integration and project management, Honeywell teams have expertise in all key areas, with over 100 professionals locally in Europe, North America and Asia. Our teams also have the advantage of leveraging specialized resources within Honeywell, adding flexibility and providing best-in-class service to our customers.

Support Services

UniSim Competency Suite comes with worldwide, premium support services through Honeywell’s Benefits Guardianship Program (BGP). BGP is designed to help our customers improve and extend the usage of their software and the benefits they deliver, ultimately maintaining and safeguarding their software investment.

For More Information

Learn more about how Honeywell’s UniSim Competency Suite can improve your operational performance and plant safety. Visit our website http://hwll.co/UltimateOperator or contact your Honeywell account manager.