ThingWorx Operator Advisor

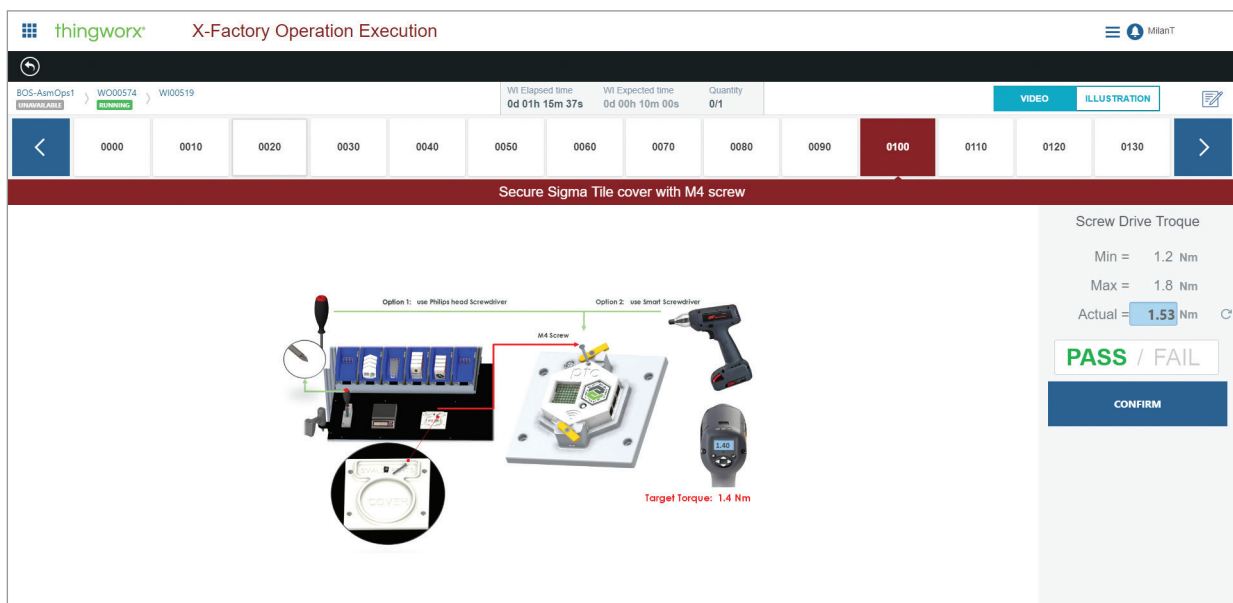Improve Your Operator Productivity & Flexibility

Kickstart your Industry 4.0 Journey with PTC's ThingWorx Manufacturing Apps and Building Blocks

With the demand for increasingly complex and tailor-made products on the rise, manufacturers face mounting global competition and vastly more complex manufacturing operations. This puts tremendous pressure on your workforce to adapt – with increased changeovers and more difficult product assembly, they need advanced tools, updated processes, and better training. In fact, more than 80% of manufacturers indicate a moderate or serious shortage of qualified applicants for skilled and highly-skilled production positions[1].

ThingWorx Operator Advisor (OA) addresses the skills gap and helps manufacturers increase workforce productivity and operational efficiency by delivering a unified IT-OT interface for operators. On a single screen, OA provides work order, work instruction, machine, and smart tool data.

By connecting to various siloed manufacturing systems, including ERP, MES, PLM, and CMMS, and capturing machine data from HMIs and PLCs, Operator Advisor is able to provide in-context, accurate information and data unlike any other solution. OA also monitors productivity in real-time and, with connectivity to machines and smart tools, it ensures precise execution and validated product quality – all while capturing data for compliance and better visibility.

Equip operators with the information they need to identify and complete tasks, all in a single interface.

1 Source: Deloitte and the Manufacturing Institute

Why ThingWorx Operator Advisor?

OA helps manufacturers improve workforce productivity by simplifying the delivery of digital work instructions in context, eliminating static paper and PDF-based instructions. The solution also enables the logging of data, such as best practice workflows, as expert workers complete certain tasks. Operator Advisor brings together IT and OT systems and connects to smart tools and machines to create a unified operator screen.

Capabilities/Features

- Bi-directional integrations from various systems to ThingWorx and back

- Automated and manual data capture to build product genealogy

- Connectivity to smart tools

- Real-time quality check to error proof execution

Benefits/Business Improvements

- Improved Operator Efficiency

- Improved Quality

- Reduced Operator Training

- Increased Workforce Flexibility

Optimization across the board

- Increase productivity by 5-8%

- Reduce Scrap and Rework Costs by 15-25%

- Reduce time to productivity for new workers or upskilled workers

- Improved workforce flexibility and satisfaction

- Increased operational performance

- Reduced burden of compliance and traceability

Learn more at www.ptc.com/en/thingworx-applications/operator-advisor