



Let's Solve



A Larsen & Toubro  
Group Company



## Digital Work Instruction for Production

Optimize your workforce with guided workflows



# Overview

With an increasing demand for high-quality and customized products, manufacturers are ushering towards more flexibility in production lines. However, increased flexibility is leading to complexity in production processes and challenges for work cell operators. A cognitive system that enables a simple yet effective representation of complex processes can help operators quickly adapt to new Standard Operating Procedures (SOP) for product change requirements.

## Overcoming Complexities -The LTI Advantage

LTI's Digital Work Instruction (DWI) enables a simple and unified view of SOPs in the form of assisted workflows for operators. The operator gets real-time feedback from smart tooling components that help prevent the breach of threshold limits. The Internet of Things (IoT) based solution reduces silos and skill gaps by creating a consolidated view across work orders and provides insights for training interventions and skill-based targets. For initiated work orders, the solution enables a quick and easy flow of approval, reducing production delays.



# Solution Features

LTI's DWI has the following key features:



Allows products to be built correctly and defect-free every time, in compliance with regulatory standards and improve adaptability during process changes



Automatically displays the correct build option, associated work instruction, and device control based on the Bill of Materials (BOM) or the device model at station level



Collects and analyzes tool data for continuous feedback and digitally monitors, manages, and documents quality data



Tracks the time spent in executing instructions and approval processes at work centers which help create a focused training plan for operators



Enables offline use of the solution for step-by-step simulated training, accelerating training while digitally monitoring outcomes, readiness, and cross-training



Allows integration of illustrative media files with work instructions that enhances an operator's experience



Quickly onboard assets or smart tools, allowing the monitoring of attributes configured as per production requirements

# Persona Delight



Work Cell operators

- Increase in productivity and safety at workplace due to guided instructions
- Step-by-step guidance on processes enables error-free workflows, leading to a lesser chance of rejection of products



Line Supervisors

- Increase in throughput and faster resolution of queries
- Easy cross-training on processes and machines
- Faster approval process with automated notification through a handheld device interface for use while on the move



Training Instructors

- Simplify training of complex equipment and machines with visual simulation
- Remotely undertake training sessions, allowing flexibility and inclusion of more participants in each session

# Business Benefits

Some of the benefits realized based on our experience of DWI implementation include:



Improved Overall Labor Effectiveness (OLE)



Accelerated response time with faster approval flows and audit trails for future reference



Adaptive workforce and improved process accuracy



Safer work environment with access control for equipment on the shop floor

**LTI (NSE: LTI)** is a global technology consulting and digital solutions company helping more than 400 clients succeed in a converging world. With operations in 31 countries, we go the extra mile for our clients and accelerate their digital transformation with LTI's Mosaic platform enabling their mobile, social, analytics, IoT and cloud journeys. Founded in 1997 as a subsidiary of Larsen & Toubro Limited, our unique heritage gives us unrivalled real-world expertise to solve the most complex challenges of enterprises across all industries. Each day, our team of more than 33,000 LTItes enable our clients to improve the effectiveness of their business and technology operations and deliver value to their customers, employees and shareholders. Find more at <http://www.Ltinfotech.com> or follow us at [@LTI\\_Global](https://twitter.com/LTI_Global).