

# E2open Manufacturing Instructions

## Governance of Information Management Between Design and Manufacturing

Poor communication between design groups and production teams at internal and contract manufacturer locations introduces costly errors and unnecessary delays when processing new product introductions or design modifications. **E2open's Manufacturing Instructions application** streamlines the management of manufacturing, test and quality instructions between multiple parties to ensure efficient implementation for product ramp-ups and change orders.






Transferring new design specifications and engineering change orders to factory teams is a traditionally manually-intensive and error-prone process involving emails, spreadsheets and PDFs. This cumbersome exchange makes it hard to synchronize or consistently enforce the adoption of new specifications and change orders across disparate facilities, resulting in product delays and waste. Managing this process becomes even more challenging when some or all of the production is outsourced to third parties.

One of E2open's Collaborative Manufacturing intelligent applications, E2open Manufacturing Instructions provides strong governance for the dissemination, archiving and version control of instructions across multiple parties. New designs and change orders are automatically routed in a timely and controlled manner across all facilities — whether internal or external, local or global. The ability to coordinate and synchronize production changes ensures the consistent quality of all goods and supports product introductions with faster cycle times.






### Efficient Information Transfer From Design to Manufacturing

E2open Manufacturing Instructions streamlines the exchange, maintenance and archiving of design documents, manufacturing instructions and quality test specifications.

#### KEY FEATURES

-  Integrated modeling of design, manufacturing and test instructions
-  Parametric manufacturing instruction or recipe creation and reuse to prevent manufacturing errors
-  Tracking and validation of product introduction and change instructions through review and approval workflows
-  Automated identification of exceptions and system-based resolution with stakeholders within design, manufacturing and testing
-  Global data governance compliance for contract manufacturers through the E2open network

#### KEY BENEFITS

-  25% reduction in product introduction cycle times through the rapid, seamless and accurate transfer of instructions
-  40% increase in product engineering productivity due to the accuracy and efficiency gained by leveraging a collaborative platform
-  Single source of truth that eliminates manual rekeying and multiple versions of instructions that otherwise result in manufacturing communication errors
-  Ability to improve product quality and eliminate manufacturing errors by comparing build and test results to specifications
-  Faster time to market due to the smooth transition from product ramp-up to mass production

## Integrated Model Across Design, Manufacturing and Testing

The operational stages or steps within design, manufacturing and testing processes are defined across the organization's locations. The parameters associated with the operational stages, such as time-phased yields, cycle times, capacity and other user-defined fields, are modeled with revision control. As a result, internal factories and external contract manufacturing become digitally represented in a holistic manner. Designers and manufacturers gain a single point of reference for the end-to-end manufacturing lifecycle that fosters clear communication and reduces errors.

## Parametric Instructions for Error Prevention

A context-based parametric system enables the efficient management of manufacturing instructions or recipes that are similar but have subtle differences depending on combinations of locations, product, process, step, equipment and accessories. The use of business rules on top of parameterized data leaves no room for ambiguity when internal operators or contract manufacturers interpret instructions. This multiplies efficiencies by reducing errors and reworks.

Companies can improve product quality and simultaneously reduce the cost of managing product data and intellectual property by applying common parameters to the creation, approval and dissemination of instructions for new products and change orders. Reusing common parameters and data is key to saving time and efficiently managing high-velocity product introduction cycles.

## Seamless Design Handoff to Manufacturing

Role-based workflows allow a vast number of product introductions and change orders to flow through extensive review and approval processes. Communication can span multiple departments, personas and people at internal facilities and external partner locations worldwide. Users can create ad-hoc processes with start-to-finish automation where human intervention is only required for exceptions.

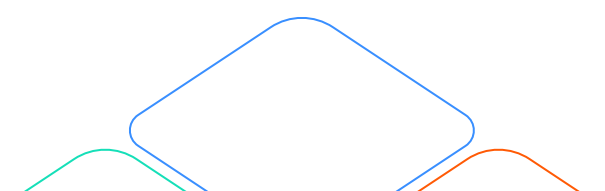
In addition to an increase in productivity and efficiency, data captured from the workflow steps is available for performing analytics and closing the loop to improve introduction and design change processes.

## Operational Data Governance With Contract Manufacturers

Once the manufacturing or test instruction data for new or existing products has been approved, it is synchronized with contract manufacturing partners throughout the world via the E2open network. After the instructions are implemented, confirmations are automatically sent back to the design groups. If there are discrepancies, resolution tickets are created to ensure that any issues are promptly eliminated. Collaboration is easier and more efficient because brand owners and contract manufacturers share a single source of truth complete with data governance, version control and archival.

## End-to-End Supply Chain Management Platform

Once an organization implements any E2open platform application, it is easy to add more capabilities in the future for better visibility, coordination and control over the end-to-end supply chain. The E2open platform creates a digital representation of the internal — and optionally external — network, connects internal ERP and financial systems using SAP® and Oracle® certified adapters for timely data feeds, and normalizes and cleanses the data to make it decision-grade. Using machine-learning enabled algorithms and supply chain management applications, the platform processes the data and provides bi-directional, closed-loop communications back to ERP systems for execution. This facilitates the evolution of supply chain processes towards true convergence of end-to-end planning and execution.



**Centralized management of manufacturing and testing instructions enables a seamless transition from design to mass manufacturing for both internal and external production. This improves quality and productivity while accelerating product ramp-ups.**

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