DISCUS ENG

Work Instructions

Develop visual work instructions and data collection forms without requiring your engineering team to become document publisher.

4 Key Elements to Better Work Instructions

Most Common Challenges

- For more than 80% of companies, the work instructions and results data collection are performed on a hard copy of the routing/traveler.

- The lack of detailed work instructions with illustrations is often considered the root cause for many scrap and rework issues that arise in production.

- Most ERP/MES systems don't support instructions that include useful operation-specific illustrations from drawings and CAD models.

- There are limited methods for ascertaining feedback from the shop operators.

- It is difficult to keep detailed instruction documents reliably in sync with ERP based routings, and it's very difficult to update instructions when it comes to incorporating changes.

Solution Requirements

- The system should present the work instructions and data collection forms to the operator through a browser to allow for interaction via laptop or tablet.

- The system should enable the operators to electronically access the current revision of all required and related documents, such as internal procedures.

- The work instructions should provide a set of textual instructions that are coordinated with illustrations, diagrams, and required data entry.

- The system should enable bi-directional communication where the operator can capture characteristic results, non-conformances, time tracking, and feedback to the engineer.

- Any support for work instructions and data collections should be integrated with ERP/MES to avoid any duplication of data entry efforts.

DISCUS ENG Approach

- DISCUS ENG provides an organized, browser-based interface for all detailed work instruction and data collection forms.

- ENG work instructions provide links to all of the pertinent process documentation, including industry specifications and internal procedures.

- ENG provides instructions as standard textual directions integrated with operation-specific illustrations, diagrams, and required data entry.

- ENG enables efficient data capture about both the process parameters and part characteristics and provides immediate feedback to the operator.

- The ENG integration connectors enable the direct data sharing with the ERP system, which eliminates re-entering data into another computer system.

ENG Benefits

- Reduces the amount of engineering labor involved in problem-solving by capturing production data in an intelligent structure for rapid analysis.

- Improves data quality and completeness by validating that all required data is entered prior to the operator being allowed to proceed to operation complete.

- Reduces scrap and rework on shop floor by providing operators with a more detailed set of illustrated work instructions.

- Improves shop labor efficiency by providing operators with a means to send immediate feedback to engineering during new product introduction.

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$ Cost Estimating   ⚠ Risk Management   ⚙ Process Planning   ⟳ Change Management   ⬚ Performance Reporting