

JD EDWARDS WORLD SHOP FLOOR MANAGEMENT

KEY BENEFITS

- Support mixed-mode manufacturing environments.
- Achieve just-in-time and lean-flow goals.
- Respond quickly to changes in reporting requirements.
- Fully integrated with JD Edwards World Quality Management.

KEY FEATURES

- Hours and quantities tracking.
- Process/routing instructions.
- Work order and rate schedule creation.
- Production tracking.
- Material tracking.
- Reporting.
- Launch and/or demand-driven execution.
- Multiple schedules.
- Flexible schedules.
- Multiple order types.
- Workflow control.
- Linkage to sales and purchase orders.
- Work order subcontracting.
- Labor reporting.
- Preflush, backflush, or pay-point super backflush.
- Dispatch lists.
- Scheduling workbench.
- Completions to multiple lots/locations.
- Inventory commitment rules.
- Lot/serial number control with trace/track capability.
- Finite scheduling:
 - Bottleneck, forward, and backward scheduling.
 - Constraint scheduling of labor and tooling.
- Manufacturing accounting:
 - Engineering, planned, and actual variances.

The Issue: Aligning Production to the Realities of the Factory Floor

The forecast is set. Customer orders are in the system. Planning and purchasing has been performed. Yet you can barely meet the production and shipping schedule. And, even if you could, you have no idea what it is costing the company to produce product. Everyone is working hard and even putting in overtime, but the job still isn't getting done as efficiently and cost effectively as it could be.

You don't have accurate or timely records of the production activity, and you have minimal visibility into your labor, overhead, and material costs. Your ability to analyze and monitor this activity with regard to future process improvement is limited. Your profit margin is impacted, but it's difficult to fix problems when you can't easily zero in on what's causing them.

The Solution: Integrated, Multimode Manufacturing

Oracle's JD Edwards World Shop Floor Management is a mixed-mode solution—supporting your diverse product line, your variable manufacturing and inventory strategy, and your choice of manufacturing processes. With a single solution, you can manage any combination of the following modes:

- Discrete
- Engineer-to-order
- Batch process
- Configure-to-order
- Continuous process
- Assemble-to-order
- Repetitive
- Orderless
- Make-to-order
- Remanufacture
- Make-to-stock
- Job shop
- Push and/or pull

By managing the flow of materials inside the plant, Shop Floor Management executes the production plan that supports inventory, cost, quality, and product lead-time objectives to meet customer and marketplace requirements.

KEY FEATURES (continued)

- Hazardous materials management:
 - Governmental, OSHA, and SARA.
 - MSDs, control, and labels.
 - Chemical reporting.
 - Import/Export
- Z-file processing for Work Order, Parts List and Routing Instructions

SOLUTION INTEGRATION

- JD Edwards World Manufacturing Management
- JD Edwards World Distribution Management
- JD Edwards Financials Management
- JD Edwards World Base Configurator
- JD Edwards World Requirements Planning
- JD Edwards World Forecasting
- JD Edwards World Payroll Processing
- JD Edwards World Quality Management
- JD Edwards World Warehouse Management
- JD Edwards World Equipment/Plant Maintenance

An effectively managed shop floor control system serves as both a participant and a mediator between production control and the shop manufacturing floor. It efficiently schedules your work-in-process activities—whether they are regular work orders, rate scheduled, or preventative maintenance—and creates the needed parts list and routings.

Better yet, you can drive production and component replenishment by manual or electronic kanban signals, both inside your plant and with your suppliers, to achieve just-in-time and lean/flow goals.

Efficiently Manage the Production Process

It all begins with the creation of demand or a work order manually, via the sales order, or planning system. With the online or hard copy work order, the parts list and routing are attached, and the shop packet is established.

With the aid of the scheduling workbench, you can access a variety of online options that are useful for work order management as you coordinate the shop floor timetable with the labor and material needed to meet the production schedule. The scheduling functionality shows work center information (a dispatch list) for work orders, including operation sequence, open orders, and run hours by machine and labor.

Material can be manually issued, preflushed, or backflushed at a work center pay point or on completion of the work order.

Once work is performed and has gone through the routing steps, the system automatically records the quantities completed and labor hours expended. At your option, you can set up the system so that the labor hours are simultaneously entered into payroll time entry.

Fully integrated with JD Edwards World Quality Management, capture quality test results:

- At routing operations and/or completions
- Includes backflush and super backflush
- Work order time entry

The completed items can then go to a designated location, be stored in inventory, or be shipped against a sales order already entered in the system. With integrated warehouse management, completed work order items can be cross-docked.

Mixed Mode

The production plan can be executed by standard discrete work order, using repetitive manufacturing, or by orderless processing in any combination.

Repetitive Manufacturing features include:

- Line and Shift Capacity, Line Item Relationship
- Capacity defined by production line and shift. Capacity UOM can be different than hours
- Define the amount of capacity consumed by each item scheduled on the line
- Rate Schedules, specify start and end dates, and the amount to be produced spread across that period

- Line Scheduling and Sequencing
- View and adjust production of rate schedules according to line capacity
- Sequence line to produce similar items together

Orderless processing allows users to manage production of items without the need of a work order. In a lean environment, common end items, sub-assemblies or service parts may be produced without the need of a work order, thereby saving the administrative cost associated with a work order. An orderless completion:

- Increments inventory of the finished item while decrementing inventory of the required components
- Captures all related costs

Automate Tracking and Reporting to Meet the Needs of the Business

The system uses data from the shop floor to maintain and communicate status information regarding labor, materials, work centers, routings, and the end operations required to complete the production requests. As material is used and labor is expended, the system offers accurate up-to-date scheduling, cost, and variance information.

In addition to setting up a monthly or yearly manufacturing day calendar, you also can establish resource units by work center for any work day, month, or year—further fine-tuning scheduling capabilities, capacity planning, efficiency, and usage.

The system builds in flexibility to respond swiftly to different tracking and reporting requirements. You decide how orders are managed with the ability to:

- Differentiate work orders by type, priority, and operation status.
- Create as many status codes as you need for effective tracking.
- Define type, priority, status, phase, category, operation status, and document type codes.

With JD Edwards World Shop Floor Management, you maintain cost control, accountability, and cash flow. You can assess charges for labor, equipment time, inventory issues, and payable invoices directly to work orders to ensure accurate billing and revenue recognition. And you realize the benefits of coordinating the release of jobs, preparing documentation, and providing accurate feedback and accountability throughout the production cycle.

Quality Management

Seamlessly integrated with JD Edwards World Quality Management, users can capture quality test results at work order routing operations and/or work order completions. JD Edwards World Shop Floor Management integrated with Quality Management supports a systematic quality solution within your organization and with suppliers.

Interoperability

JD Edwards World Shop Floor Management provides flexibility for users and interoperability with other applications with Z-file processing, and import/export for key functions; i.e. work order, parts list and routing instructions.

Contact Us

For more information about JD Edwards World, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.



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Hardware and Software, Engineered to Work Together