JD Edwards EnterpriseOne Manufacturing – Shop Floor

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Manage work order and rate schedule creation, maintenance, and tracking for demand-driven manufacturing. Enable detailed manufacturing accounting, product costing, and substitution processing. Scheduling workbenches monitor production scheduling and substitution processing.

KEY FEATURES AND BENEFITS
- Support mixed-mode manufacturing environments
- Achieve just-in-time and lean/flow goals
- Respond quickly to changes in reporting requirements
- UX One role-based pages for Plant Managers and Production Managers

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

The forecast is set. Customer orders are in the system. Planning and purchasing have 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 working overtime, but the job still is not getting done as efficiently and cost effectively as it could be.

You do not 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 affected, but it is difficult to fix problems when you cannot easily zero in on what is causing them.

You do not have complete visibility to which orders are supplying your demand. A key customer changes their order and wants it sooner. Where in the manufacturing process is their order?

The Solution: Integrated, Multimode Manufacturing

Oracle's JD Edwards EnterpriseOne Manufacturing-Shop Floor 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
- Project Manufacturing
- Engineer-to-order
- Batch process
- Configure-to-order
- Assemble-to-order
- Repetitive
- Make-to-order
- Remanufacture

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- Hours and quantities tracking
- Process/routing instructions
- Production tracking and reporting
- Material tracking and reporting
- Launch and/or demand-driven execution
- Multiple work order types
- Workflow control
- Linkage to sales and purchase orders
- Work order subcontracting
- Preflush, backflush, or pay-point backflush
- Dispatch lists
- Scheduling workbench
- Completions to multiple lots and locations
- Inventory commitment rules
- Lot and serial number control with trace/track capability
- Labor reporting, work order and rate schedule creation
- Visibility and tracking of the customer order throughout the manufacturing process
- Separation of inventory by customer demand

- Make-to-stock
- Job shop
- Push and/or pull

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

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 preventive 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.

With Project Manufacturing, you can:

- Track customers' orders through a unique production number
- Check customer status by reviewing any of the elements shown in the workbench
- Respond to evolving conditions by navigating users to the specific applications for review, update, or adjustments

You can manage the shop floor by:

- Associating all of the transactions to a manufacturing project
- Tying the following transactions to a production number:
    - Work orders
    - Sales orders
    - Purchase orders
    - Inventory transactions
- Reviewing all related elements that impact whether or not a project stays on track and take action as needed

You can define and track forecast demand by:

- Setting up forecasts by production number to create demand for:
    - Particular customers
    - Specific areas
- Managing orders through the workbench

Efficiently Managing the Production Process

It all begins with the creation of demand or a work order 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.

When 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.

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.

Access to UX One role-based pages enables Plant Managers and Production Managers to easily access, review, and act upon important information to improve manufacturing processes and scheduling efficiency through greater visibility into exception conditions.

Automating Tracking and Reporting to Meet the Business Needs

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 EnterpriseOne Manufacturing-Shop Floor, 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. You also realize the benefits of coordinating the release of jobs, preparing documentation, and providing accurate feedback and accountability throughout the production cycle.

Solution Integration

- JD Edwards EnterpriseOne Financial Management suite
  - Payroll Processing module
- JD Edwards EnterpriseOne Manufacturing suite
  - Manufacturing–ETO Foundation module
  - Manufacturing–PDM module
  - Quality Management module
  - Lean Execution module
  - Project Manufacturing module
- JD Edwards EnterpriseOne Logistics suite

- Inventory module
- Warehouse Management module

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