Manufacturing Industry Overview
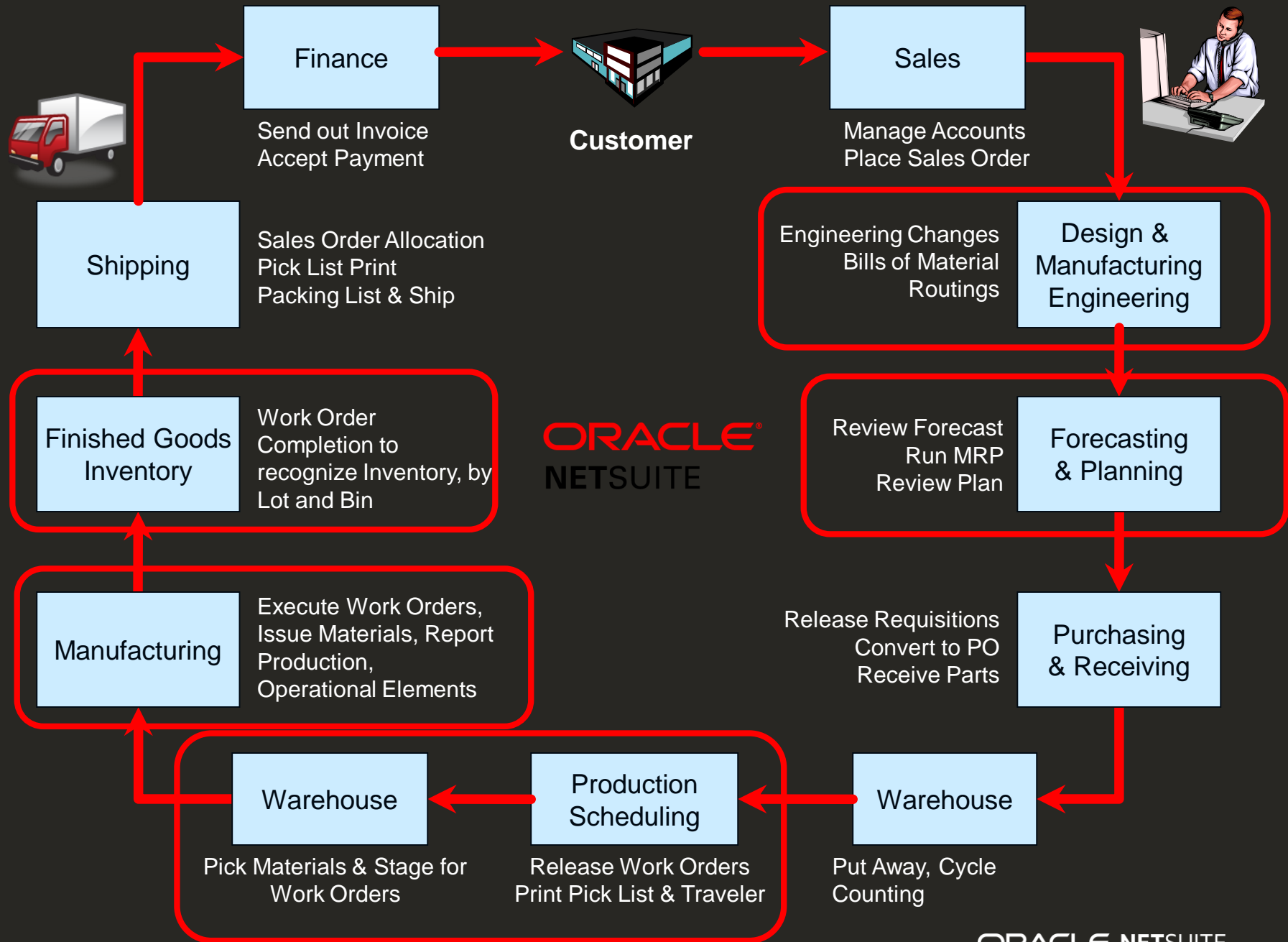
Program agenda

1   Overview of Manufacturing industry and terminology

2   Describe how an organization in the Manufacturing industry functions and the NetSuite FIT

3   NetSuite Levels of Manufacturing

ORACLE NETSUITE

Overview of Manufacturing Industry and Terminology

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Basic Manufacturing Flow Example

Finance
Send out Invoice
Accept Payment

Customer

Sales
Manage Accounts
Place Sales Order

Shipping
Sales Order Allocation
Pick List Print
Packing List & Ship

Design & Manufacturing Engineering
Engineering Changes
Bills of Material
Routings

Finished Goods Inventory
Work Order Completion to recognize Inventory, by Lot and Bin

Forecasting & Planning
Review Forecast
Run MRP
Review Plan

Manufacturing
Execute Work Orders, Issue Materials, Report Production, Operational Elements

Purchasing & Receiving
Release Requisitions
Convert to PO
Receive Parts

Warehouse
Pick Materials & Stage for Work Orders

Production Scheduling
Release Work Orders
Print Pick List & Traveler

Warehouse
Put Away, Cycle Counting

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MANUFACTURING KEY CONCEPTS

- Bill of Materials (BOM)
  - Bill of materials (BOM) is a list of the raw materials, sub-assemblies and components and the quantities of each needed to manufacture an assembly.

- Manufacturing Routing
  - Manufacturing routing is the sequenced manufacturing operations (activities) to be performed. The routing operations specify the department, work center and machine, the time required and the specifications to be referenced. The routing is also used in the standard cost roll up calculations.

MANUFACTURING KEY CONCEPTS

- Work in Process (WIP)
  - Work in process includes all unfinished items for products in a production process. These items are not yet completed but either just being fabricated or waiting in a queue for further processing or in a buffer storage. WIP accounting is used to track costs for jobs as they pass through the manufacturing process.

- Standard Cost
  - Estimated or predetermined cost of performing an operation or producing a good or service, under normal conditions. Standard costs are used as target-costs (or basis for comparison with the actual costs), and are developed from historical data analysis or from time and motion studies. They almost always vary from actual costs, because every situation has its share of unpredictable factors.*

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MANUFACTURING PLANNING CONCEPTS

- Forecasting
  - Forecasting is the activity of estimating the quantity of a product or service that consumers will purchase. Demand forecasting involves techniques including both informal methods, such as educated guesses, and quantitative methods, such as the use of historical sales data or current data from test markets.

- Material Requirements Planning (MRP)
  - Material Requirements Planning provides a time phased plan that determines what material is required, when and in what quantity based on supply (Inventory, Purchase Orders, Work Orders) and demand (Forecast, Sales, Service Spares) factoring in item lead times and scheduled due dates.

- Capacity Planning
  - Capacity planning is the process of determining the resource capacity needed by an organization to meet changing demands for its products. Resources can include:
    - Work Centers > Machines > Labor > Tooling

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MANFUACTURING EXECUTION CONCEPTS

- Shop Floor Packet
  - Package of documents needed for the Shop Floor to execute production
    - Traveler
    - Drawings
    - Specification Sheets
    - Labels

- Data Capture System
  - System to capture time spent, material used, material scrapped, labor incurred, downtime incurred and quantities completed on the Manufacturing Floor
    - Could be software or paper based system

- Execution Reporting
  - Reports produced from the data captured from the Manufacturing Floor, used to help management make business decisions

NetSuite Fit Across the Manufacturing Processes

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Highest Fit ⟶		Lowest Fit
Make to Stock / Forecast You purchase or manufacture products to meet forecasts and put them into stock	**Configure to Order** Your products have some variability and features / options are selected at order entry	**Project-driven / Project Manufacturing** You use projects to manage the process of building large / complex products
Assemble to Order You assemble products after receiving an order (and often make sub-components to stock / forecast)	**Contract Manufacturing** You outsource your production to a 3rd Party to manufacture on your behalf	**Engineer to Order** You design and manufacture large / complex one-off products based on customer specifications
Make to Order You manufacture products after receiving an order (and tracking labor and burden costs are important)		**Job Shop** You manufacture small batch's of custom product we low repeat business
Process-driven You use formulas or recipes, instead of BOMs, and often manufacture in batches		**Continuous Process** The materials, either dry bulk or fluids that are being processed are continuously in motion, undergoing chemical reactions or subject to mechanical or heat treatment.

MAKE TO STOCK

Make to Stock - A production environment where products can be and usually are finished before receipt of a customer order. Customer orders are typically filled from existing stocks, and production orders are used to replenish those stocks. Syn: produce-to-stock.

Common Micro-Verticals
  Consumer Electronics
  Outdoor Products
  Baby Supplies
  Lighting

SECRID

SAM LABS

ASSEMBLE TO ORDER

Assemble-to-Order - (ATO) A production environment where a good or service can be assembled after receipt of a customer's order. The key components used in the assembly or finishing process are planned and usually stocked in anticipation of a customer order. Receipt of an order initiates assembly of the customized product. Syn: finish-to-order.

Common Micro-Verticals
  High Tech Electronics
  Consumer Electronics
  Furniture

MAKE TO ORDER

Make-to-Order - A production environment where a good or service can be made after receipt of a customer's order. The final product is usually a combination of standard items and items custom-designed to meet the special needs of the customer.

Common Micro-Verticals
- Industrial Supply
- Custom Furniture
- Industrial Equipment
- Building Materials

PROCESS DRIVEN

Process Manufacturing - Production that adds value by mixing, separating, forming, and/or performing chemical reactions. It may be done in either batch or continuous mode

Common Micro-Verticals
Food and Beverage
Health & Beauty
Chemical

CONFIGURE TO ORDER

Product Configurator - A system, generally rule-based, to be used in design-to-order, engineer-to-order, or make-to-order environments where numerous product variations exist.

Common Micro Verticals
- Furniture
- Industrial Electronics
- Industrial Machinery
- Capital Equipment
- Building Materials

CONTRACT MANUFACTURING

Contract Manufacturing - A situation in which a third party makes products that are packaged under another company's label.

Common Micro-Verticals
 High Tech Electronics
 Medical Device
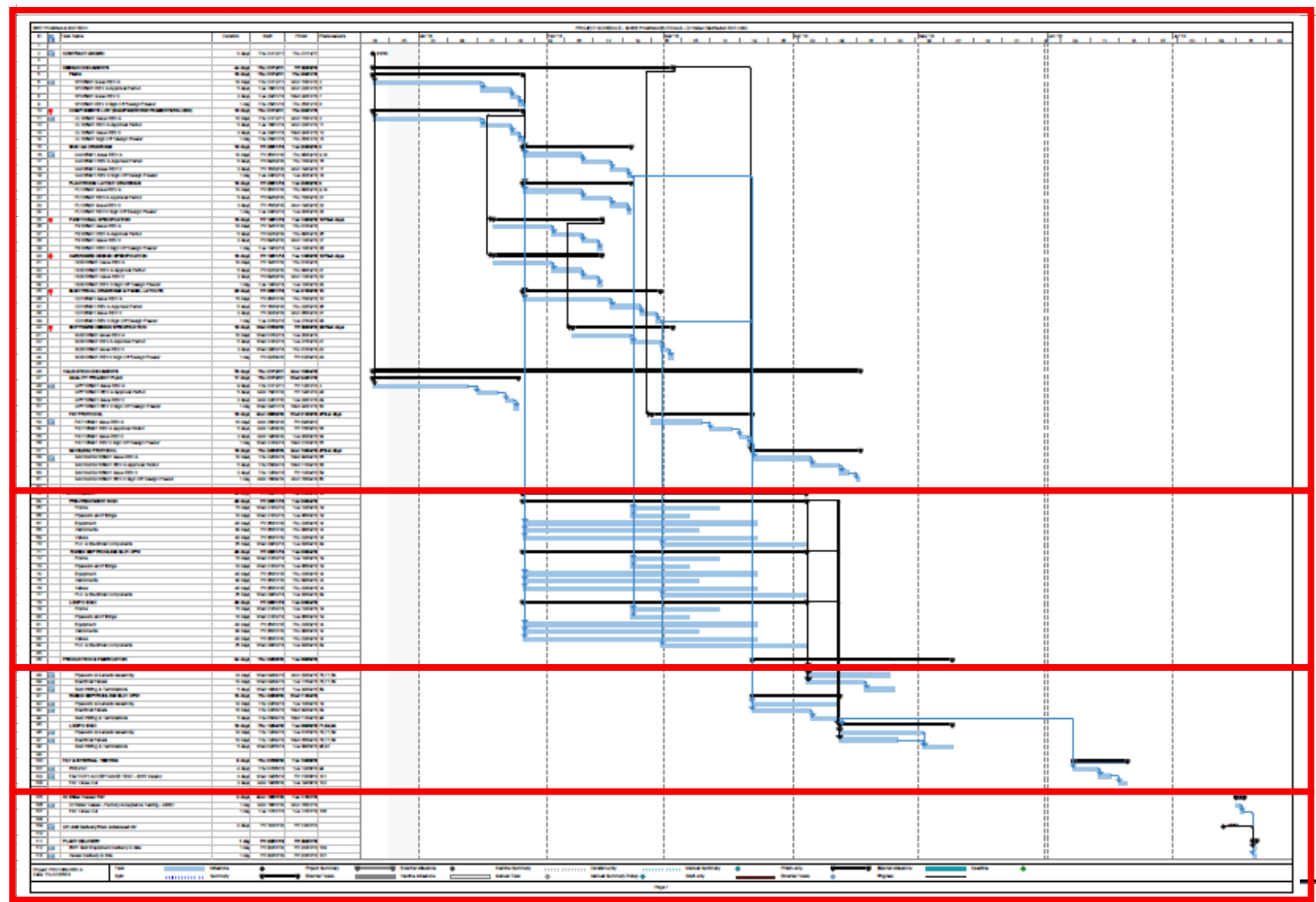 Consumer Electronics
 Lighting

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jibo

REQUIREMENTS FOR PROJECT MANUFACTURING CUSTOMERS

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Engineering / Design

Procurement

Manufacturing

Installation / Commissioning

Key Functional Requirements for Project Manufacturers

- Accurate costs
  - Materials
  - Labour
  - Design
  - Engineering
  - Commissioning

- Job Costing / Project Costing
- Cost Commitment Reporting
- Project Pegging for Stock Allocation
- Project Co-Mingling for Procurement
- Manufacturing Scheduled by Project

Activities / Dates / Milestones
  - And other activities scheduled by manufacturing progress

- Rev Rec based on Manufacturing Progress

- Invoicing for Manufactured Good to be driven by Project Milestones
  - No Invoice at point of item shipment

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Project Costing Report filtered for two customer projects – Budget Data and Actuals Calculated. Parent also summarised.

Project Manufacturing
DO WE HAVE COMPETITION?

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TOP COMMON COMPETITORS IN MANUFACTURING

By Volume & Velocity

By Vertical Niche Focus

NETSUITE MANUFACTURING

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WORK ORDERS AND ASSEMBLIES

NetSuite Manufacturing: Transforming from Legacy ERP Software
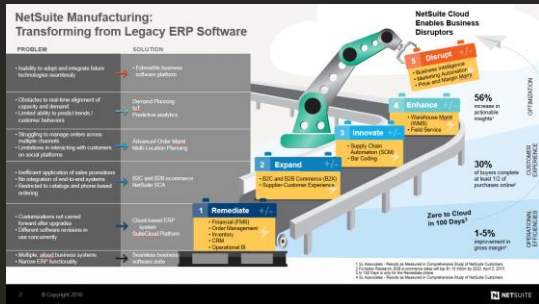
- Track BOM
- Create Shop Floor Tracking Mechanism
- Fixed Lead Time Planning
- Consume Component upon completion and create Finished Good item
- Calculate Finished Good cost from Components

Work Orders and Assembly

- + WO and Assemblies
- Routings
- Capture Operational Setup and Run Time
- Variable Lead Time Planning
- Forward/Backward Schedule
- Backflush Material/ Labor or Complete separately
- Cost Collection at Operational Level
- Calculate Finished Good cost from Components and Operations

Work in Process and Routings

- +WO and Assemblies
- +WIP and Routings
- Asset based Work Bench
- Discrete and Batch setup
- Finite based Work Order Scheduling
- Capacity Planning
- Backflush Material/ Labor at Operation used at
- Capture Actual Operational Setup and Run Times as they happen
- Tablet/Scanner for Real Time Work Order Tracking
- Downtime reporting
- In Process Quality

Advanced Manufacturing

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WORK ORDER AND ASSEMBLIES

STREAMLINES BASIC MFG AND ASSEMBLIES, OPTIMIZE INVENTORY AND IMPROVE PRODUCTIVITY

WORK ORDERS - NetSuite's work order capabilities allow manufacturers to readily plan the build process for production work orders to actively replenish inventory levels of finished goods. Alternatively, you can create special order work orders to build to exact specifications for a particular customer and order

ASSEMBLY MANAGEMENT - NetSuite's assembly management capabilities enable you to more effectively manage component quantities and multi-level assemblies using revision or effectivity dates if necessary.

WHY USE? Building on NetSuite's core strength in inventory and warehouse management, NetSuite allows multi-level assemblies to be built one level at a time or all at once.

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COMMON BUSINESS CHALLENGES

UNDERSTANDING YOUR *PROSPECT'S* CHALLENGES

- Hard to get accurate inventory at the component and assembly levels

- Need a way to track product history for the assemblies being built

- Inventory replenishment is difficult to plan or see usage

- Need some light assembly in the warehouse

- Would like to track work done but don't want to leverage routings.

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NETSUITE
in action

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Activities Shipping Receiving Inventory Reports Analytics Documents Setup Manufacturing Planning Support

📦 **Assembly/Bill of Materials** 🔍   ← →   List   Search

MBK001

[Edit] [Back] | [Supply Chain Snapshot]   🖨 📥▾ Actions ▾

Primary Information

ITEM NAME/NUMBER	UNITS TYPE	ITEM IMAGE
MBK001	Each	
DISPLAY NAME/CODE	STOCK UNITS	
All Terrain Mountain Bike	Each	
SUBITEM OF	PURCHASE UNITS	
	Each	
UPC CODE	SALE UNITS	
	Each	
	BASE UNIT	DESCRIPTION
	Ea	All Terrain Mountain Bike

Classification

SUBSIDIARY	DEPARTMENT	PREFERRED LOCATION
Parent Company : United Kingdom	Production : Finished Goods	
☐ INCLUDE CHILDREN	CLASS	PLANNER
	Sports & Outdoor Goods	
	LOCATION	

Scheduling

SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 2	SCHEDULING ATTRIBUTE 3
PRICING UPDATE ITEM CATEGORY	ITEM VALIDATIONS ITEM GROUP	

Manufacturing Purchasing / Inventory Sales / Pricing Accounting Inventory Detail Item360 Related Records Communication Preferences System Information Hazmat/Dangerous Goods Matrix Web Store Tax Reporting

☐ PHANTOM   ☐ MARK SUB-ASSEMBLIES PHANTOM
☐ SPECIAL WORK ORDER ITEM   EFFECTIVE BOM CONTROL
                                             Revision Control

Components •

☐ DISPLAY COMPONENTS ON TRANSACTIONS   ☑ USE COMPONENT YIELD

ITEM	DESCRIPTION	COMPONENT YIELD	BOM QUANTITY	ITEM SOURCE	QUANTITY	UNITS	SCHEDULE	EFFECTIVE DATE	OBSOLETE DATE	EFFECTIVE REVISION	OBSOLETE REVISION
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		100.0%	1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default	
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		100.0%	1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default	
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	100.0%	2	Work Order	2	Ea	S-1 Taxable	01/03/1970		Default	

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🕐 ⭐ 🏠 | Activities Shipping Receiving Inventory Reports Analytics Documents Setup Manufacturing Planning Support

Primary Information

ITEM NAME/NUMBER
MBK001

DISPLAY NAME/CODE
All Terrain Mountain Bike

SUBITEM OF

UPC CODE

UNITS TYPE
Each

STOCK UNITS
Each

PURCHASE UNITS
Each

SALE UNITS
Each

BASE UNIT
Ea

ITEM IMAGE

DESCRIPTION
All Terrain Mountain Bike

Classification

SUBSIDIARY
Parent Company : United Kingdom

☐ INCLUDE CHILDREN

DEPARTMENT
Production : Finished Goods

CLASS
Sports & Outdoor Goods

LOCATION

PREFERRED LOCATION

PLANNER

Scheduling

SCHEDULING ATTRIBUTE 1

PRICING UPDATE ITEM CATEGORY

SCHEDULING ATTRIBUTE 2

ITEM VALIDATIONS ITEM GROUP

SCHEDULING ATTRIBUTE 3

Manufacturing Purchasing / Inventory Sales / Pricing Accounting Inventory Detail Item360 Related Records Communication Preferences System Information Hazmat/Dangerous Goods Matrix Web Store Tax Reporting

☐ PHANTOM

☐ SPECIAL WORK ORDER ITEM

☐ MARK SUB-ASSEMBLIES PHANTOM

EFFECTIVE BOM CONTROL
Revision Control

Components •

☐ DISPLAY COMPONENTS ON TRANSACTIONS

☑ USE COMPONENT YIELD

ITEM	DESCRIPTION	COMPONENT YIELD	BOM QUANTITY	ITEM SOURCE	QUANTITY	UNITS	SCHEDULE	EFFECTIVE DATE	OBSOLETE DATE	EFFECTIVE REVISION	OBSOLETE REVISION
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		100.0%	1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default	
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		100.0%	1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default	
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	100.0%	2	Work Order	2	Ea	S-1 Taxable	01/03/1970		Default	
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		100.0%	1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default	

Edit Back Supply Chain Snapshot 🖨 📄 Actions ▾

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Activities | Shipping | Receiving | Inventory | Reports | Analytics | Documents | Setup | Manufacturing | Planning | Support

ITEM NAME/NUMBER	UNITS TYPE	ITEM IMAGE
WHL001	Each	
DISPLAY NAME/CODE	**STOCK UNITS**	
All Terrain MB Wheel	Each	
SUBITEM OF	**PURCHASE UNITS**	
	Each	
UPC CODE	**SALE UNITS**	
	Each	
	BASE UNIT	
	Ea	**DESCRIPTION**
		All Terrain MB Wheel

Classification

SUBSIDIARY	DEPARTMENT	PREFERRED LOCATION
Parent Company : United Kingdom	Production : Finished Goods	
☐ INCLUDE CHILDREN	**CLASS**	**PLANNER**
	Sports & Outdoor Goods	
	LOCATION	

Scheduling

SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 2	SCHEDULING ATTRIBUTE 3

PRICING UPDATE ITEM CATEGORY	ITEM VALIDATIONS ITEM GROUP	

Manufacturing | Purchasing / Inventory | Sales / Pricing | Accounting | Inventory Detail | Item360 | Related Records | Communication | Preferences | System Information | Hazmat/Dangerous Goods | Matrix | Web Store | Tax Reporting

☐ PHANTOM
☐ SPECIAL WORK ORDER ITEM

☐ MARK SUB-ASSEMBLIES PHANTOM

EFFECTIVE BOM CONTROL
Effective Date

Components •

☐ DISPLAY COMPONENTS ON TRANSACTIONS

☐ USE COMPONENT YIELD

ITEM	DESCRIPTION	COMPONENT YIELD	BOM QUANTITY	ITEM SOURCE	QUANTITY	UNITS	SCHEDULE	EFFECTIVE DATE	OBSOLETE DATE
PRODUCTION COMPONENTS : RIM001 MB Rim				Purchase Order	1	Ea	S-1 Taxable		
PRODUCTION COMPONENTS : SPK001 MB Spokes				Stock	28	Ea	S-1 Taxable		
PHA0001 Tyre Assembly	Tyre Assembly			Phantom	1	Ea	S-1 Taxable		

Edit | Back | Supply Chain Snapshot | Actions ▾

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Work Order

WO0000087   RELEASED

← → List   Search   Customise

Edit   Back   Create Build   Close   Print BOM   Actions

Primary Information

ORDER #	DATE	QUANTITY	SCHEDULING METHOD
WO0000087	30/07/2019	3	
SUBSIDIARY	REVISION	UNITS	PRODUCTION START DATE
United Kingdom	Default	Each	30/07/2019
ASSEMBLY	MANUFACTURING ROUTING	BUILDABLE	PRODUCTION END DATE
MBK001 All Terrain Mountain Bike		3	30/07/2019
LOCATION	☐ WIP	BUILT	☐ AUTO-CALCULATE LAG
Manchester		0	PLANNER
MEMO	☐ MARK SUB-ASSEMBLIES PHANTOM	STATUS	
	☑ FIRMED	Released	

Classification

CUSTOMER	CLASS	DEPARTMENT
	Sports & Outdoor Goods	Production : Finished Goods

Scheduling

SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 2	SCHEDULING ATTRIBUTE 3	SCHEDULE SEQUENCE

PROJECT

Items Inspection Analysis Communication Related Records System Information Custom EFT Source Transaction Case Record Target Transaction Case Record Sales Team

ITEM	DESCRIPTION	BOM QUANTITY	QUANTITY	UNITS	INVENTORY DETAIL	COMMITTED	USED IN BUILD	BACK ORDERED	AVAILABLE	ON HAND	COMPONENT YIELD	COMMIT	COMMITMENT CONFIRMED	ITEM SOURCE	TRANSACTION	PO VENDOR	PLANNED COMPONENT ISSUE DATE	OPERATION	OPTIONS	HISTORY
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	3	Ea		3	0	0	30	50	100.0%	Available Qty		Stock		Johnson Supply	30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	3	Ea		3	0	0	20	40	100.0%	Available Qty		Stock		AAK	30/07/2019 8:00 am			History
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	6	6	Ea		6	0	0	6	36	100.0%	Available Qty		Work Order	WO0000088		30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	3	Ea		3	0	0	44	64	100.0%	Available Qty		Stock		AAK	30/07/2019 8:00 am			History

Edit   Back   Create Build   Close   Print BOM   Actions

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Activities · Payments · **Transactions** · Lists · Reports · Analytics · Documents · Setup · Customization · Fixed Assets · Administration & Controls · Vendor Prepayment · Support

Work Order 🔍

← → List · Search · Customise

WO0000087   RELEASED

Edit | Back | **Create Build** | Close | Print BOM   Actions ▾

Primary Information

ORDER # WO0000087	DATE 30/07/2019	QUANTITY 3	SCHEDULING METHOD
SUBSIDIARY United Kingdom	REVISION Default	UNITS Each	PRODUCTION START DATE 30/07/2019
ASSEMBLY MBK001 All Terrain Mountain Bike	MANUFACTURING ROUTING	BUILDABLE 3	PRODUCTION END DATE 30/07/2019
LOCATION Manchester	☐ WIP	BUILT 0	☐ AUTO-CALCULATE LAG
MEMO	☐ MARK SUB-ASSEMBLIES PHANTOM ☑ FIRMED	STATUS Released	PLANNER

Classification

CUSTOMER	CLASS Sports & Outdoor Goods	DEPARTMENT Production : Finished Goods

Scheduling

SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 2	SCHEDULING ATTRIBUTE 3	SCHEDULE SEQUENCE

PROJECT

Items · Inspection · Analysis · Communication · Related Records · System Information · Custom · EFT · Source Transaction Case Record · Target Transaction Case Record · Sales Team

ITEM	DESCRIPTION	BOM QUANTITY	QUANTITY	UNITS	INVENTORY DETAIL	COMMITTED	USED IN BUILD	BACK ORDERED	AVAILABLE	ON HAND	COMPONENT YIELD	COMMIT	COMMITMENT CONFIRMED	ITEM SOURCE	TRANSACTION	PO VENDOR	PLANNED COMPONENT ISSUE DATE	OPERATION	OPTIONS	HISTORY
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	3	Ea		3	0	0	30	50	100.0%	Available Qty		Stock		Johnson Supply	30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	3	Ea		3	0	0	20	40	100.0%	Available Qty		Stock		AAK	30/07/2019 8:00 am			History
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	6	6	Ea		6	0	0	6	36	100.0%	Available Qty		Work Order	WO0000088		30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	3	Ea		3	0	0	44	64	100.0%	Available Qty		Stock		AAK	30/07/2019 8:00 am			History

Edit | Back | Create Build | Close | Print BOM   Actions ▾

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Assembly Build

List   Search   Customise   More

Save ▾   Cancel   Reset

Primary Information

REFERENCE #
To Be Generated

QUANTITY TO BUILD *
3

CREATED FROM
Work Order #WO0000087

POSTING PERIOD
Jul 2019

ASSEMBLY
MBK001 All Terrain Mountain Bike

UNITS
Each

INVENTORY DETAIL

MEMO

REVISION
Default

PROJECTED VALUE
1,148.95

DATE *
30/07/2019

FORM *
UK MFG MM - Assembly Build Form

Classification

SUBSIDIARY
United Kingdom

LOCATION *
Manchester

PLANNER

SCHEDULE SEQUENCE

Components   Communication   System Information   Custom   Cost Analysis   Inspection   EFT   Source Transaction Case Record   Target Transaction Case Record

Customise

COMPONENT	QUANTITY	QUANTITY ON HAND	INVENTORY DETAIL
FRM001	3	50	
BHB001	3	40	
WHL001	6	36	
HDW002	3	64	

Save ▾   Cancel   Reset

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Activities   Payments   **Transactions**   Lists   Reports   Analytics   Documents   Setup   Customization   Fixed Assets   Administration & Controls   Vendor Prepayment   Support

Assembly Build

List   Search   Customise   More

Save ▼   Cancel   Reset

Primary Information

REFERENCE #
To Be Generated

QUANTITY TO BUILD *
3

CREATED FROM
Work Order #WO0000087

POSTING PERIOD
Jul 2019

ASSEMBLY
MBK001 All Terrain Mountain Bike

UNITS
Each

INVENTORY DETAIL

MEMO

REVISION
Default

PROJECTED VALUE
1,281.45

DATE *
30/07/2019

FORM *
UK MFG MM - Assembly Build Form

Classification

SUBSIDIARY
United Kingdom

LOCATION *
Manchester

PLANNER

SCHEDULE SEQUENCE

Components   Communication   System Information   Custom   Cost Analysis   Inspection   EFT   Source Transaction Case Record   Target Transaction Case Record

Customise

COMPONENT	QUANTITY	QUANTITY ON HAND	INVENTORY DETAIL
FRM001	4	50	
BHB001	3	40	
WHL001	6	36	
HDW002	3	64	

Save ▼   Cancel   Reset

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Activities | Payments | **Transactions** | Lists | Reports | Analytics | Documents | Setup | Customization | Fixed Assets | Administration & Controls | Vendor Prepayment | Support

Work Order 🔍

WO0000087 BUILT

Edit | Back | Print BOM | Actions ▾

Primary Information

ORDER #	DATE	QUANTITY	SCHEDULING METHOD
WO0000087	30/07/2019	3	
SUBSIDIARY	REVISION	UNITS	PRODUCTION START DATE
United Kingdom	Default	Each	30/07/2019
ASSEMBLY	MANUFACTURING ROUTING	BUILDABLE	PRODUCTION END DATE
MBK001 All Terrain Mountain Bike		0	30/07/2019
LOCATION	☐ WIP	BUILT	☐ AUTO-CALCULATE LAG
Manchester	☐ MARK SUB-ASSEMBLIES PHANTOM	3	PLANNER
MEMO	☑ FIRMED	STATUS	
		Built	

Classification

CUSTOMER	CLASS	DEPARTMENT
	Sports & Outdoor Goods	Production : Finished Goods

Scheduling

SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 2	SCHEDULING ATTRIBUTE 3	SCHEDULE SEQUENCE

PROJECT

Items | Inspection | Analysis | Communication | Related Records | System Information | Custom | EFT | Source Transaction Case Record | Target Transaction Case Record | Sales Team

ITEM	DESCRIPTION	BOM QUANTITY	QUANTITY	UNITS	INVENTORY DETAIL	COMMITTED	USED IN BUILD	BACK ORDERED	AVAILABLE	ON HAND	COMPONENT YIELD	COMMIT	COMMITMENT CONFIRMED	ITEM SOURCE	TRANSACTION	PO VENDOR	PLANNED COMPONENT ISSUE DATE	OPERATION	OPTIONS	HISTORY
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	4	Ea		0	4	0	29	46	100.0%	Available Qty		Stock		Johnson Supply	30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	3	Ea		0	3	0	20	37	100.0%	Available Qty		Stock		AAK	30/07/2019 8:00 am			History
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	6	6	Ea		0	6	0	6	30	100.0%	Available Qty		Work Order	WO0000088		30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	3	Ea		0	3	0	44	61	100.0%	Available Qty		Stock		AAK	30/07/2019 8:00 am			History

Edit | Back | Print BOM | Actions ▾

https://tstdrv2073248.app.netsuite.com/app/accounting/transactions/impact.nl?trantype=build&searchid=-36&Transaction_INTERNALID=21810&Transaction_INTERNALIDtype=ANYOF&label=Assembly+Build

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Activities   Payments   Transactions   Lists   Reports   Analytics   Documents   Setup   Customization   Fixed Assets   Administration & Controls   Vendor Prepayment   Support

GL Impact

Return to Assembly Build #ASSYB10

TOTAL: 5

ACCOUNT	AMOUNT (DEBIT)	AMOUNT (CREDIT)	POSTING	MEMO	NAME	SUBSIDIARY	DEPARTMENT	PROJECT	LOCATION	CUSTOM SCRIPT
12010 Inventory : Inventory in Stock	£1,281.45		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£530.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£105.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£481.45	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£165.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	

WHAT IT MEANS FOR YOUR PROSPECT

✓ Inventory Visibility

- More accurate inventory at the component and assembly levels
- Better plan for Inventory by seeing actual usages at all levels of the Bill of Material
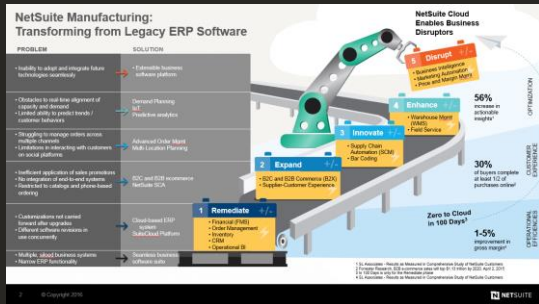
✓ Work Order Metrics

- Light assembly and product history tracking
- More accurate build history

✓ Additional Reporting

- Material shortage reporting
- Work Order Completion Reporting
- Usage tracking

ORACLE NETSUITE

WIP AND ROUTINGS

NetSuite Manufacturing: Transforming from Legacy ERP Software

- Track BOM
- Create Shop Floor Tracking Mechanism
- Fixed Lead Time Planning
- Consume Component upon completion and create Finished Good item
- Calculate Finished Good cost from Components

- + WO and Assemblies
- Routings
- Capture Operational Setup and Run Time
- Variable Lead Time Planning
- Forward/Backward Schedule
- Backflush Material/ Labor or Complete separately
- Cost Collection at Operational Level
- Calculate Finished Good cost from Components and Operations

- +WO and Assemblies
- +WIP and Routings
- Asset based Work Bench
- Discrete and Batch setup
- Finite based Work Order Scheduling
- Capacity Planning
- Backflush Material/ Labor at Operation used at
- Capture Actual Operational Setup and Run Times as they happen
- Tablet/Scanner for Real Time Work Order Tracking
- Downtime reporting
- In Process Quality

Work in Process and Routings → | Work in Process and Routings → | Work in Process and Routings →

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WORK IN PROCESS/ROUTINGS
GAIN GREATER CONTROL OVER RESOURCES AND COSTING

WORK IN PROCESS - Basic definition is the "bucket" of costs that are incurred during the manufacturing process. Optimal production management aims to minimize work in process. Work in process requires storage space, represents bound capital not available for investment and carries an inherent risk of earlier expiration of shelf life of the products. Bottom line it is not yet sellable products.

ROUTINGS - The production routings can be set up to represent every step that a product goes through, the expected set-up and run times, the associated work centers, and the cost templates that should be used. This also facilitates the real-time scheduling process, which can be defaulted to forward or backward and also over-ridden on a case by case basis.

WORK IN PROCESS/ROUTINGS
GAIN GREATER CONTROL OVER RESOURCES AND COSTING

WHY USE? Building on Work Order and Assemblies, WIP and Routings allows the customer to have better visibility in where in the manufacturing process they might be on a work order by work order basis. It also provides for greater visibility into the planned costs vs. actual costs within the Work Order

COMMON BUSINESS CHALLENGES

UNDERSTANDING YOUR *PROSPECT'S* CHALLENGES

Our products take a bit of time to produce and we want to track where it might be in the manufacturing process.

We might have more than one way to manufacturing a product and want to see alternative steps.

Want to be able to track how efficiently we are building/making a product.

Need tighter accounting for our manufacturing process.

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NETSUITE
in action

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https://tstdrv2073248.app.netsuite.com/app/common/item/item.nl?id=464

ORACLE NETSUITE

Search

Help | Feedback | Joel Williams
NetSuite - UK MFG MM - Production Manager

Activities | Shipping | Receiving | Inventory | Reports | Analytics | Documents | Setup | Manufacturing | Planning | Support

Primary Information

ITEM NAME/NUMBER	UNITS TYPE	ITEM IMAGE
MBK001	Each	
DISPLAY NAME/CODE	STOCK UNITS	
All Terrain Mountain Bike	Each	
SUBITEM OF	PURCHASE UNITS	
	Each	
UPC CODE	SALE UNITS	
	Each	
	BASE UNIT	DESCRIPTION
	Ea	All Terrain Mountain Bike

Classification

SUBSIDIARY	DEPARTMENT	PREFERRED LOCATION
Parent Company : United Kingdom	Production : Finished Goods	
☐ INCLUDE CHILDREN	CLASS	PLANNER
	Sports & Outdoor Goods	
	LOCATION	

Scheduling

SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 2	SCHEDULING ATTRIBUTE 3
PRICING UPDATE ITEM CATEGORY	ITEM VALIDATIONS ITEM GROUP	

Manufacturing | Purchasing / Inventory | Sales / Pricing | Accounting | Inventory Detail | Item360 | Related Records | Communication | Preferences | System Information | Hazmat/Dangerous Goods | Matrix | Web Store | Tax Reporting

☐ PHANTOM   ☐ MARK SUB-ASSEMBLIES PHANTOM
☐ SPECIAL WORK ORDER ITEM   EFFECTIVE BOM CONTROL
                             Revision Control

Components • | Manufacturing Routings •

☐ DISPLAY COMPONENTS ON TRANSACTIONS   ☑ USE COMPONENT YIELD

ITEM	DESCRIPTION	COMPONENT YIELD	BOM QUANTITY	ITEM SOURCE	QUANTITY	UNITS	SCHEDULE	EFFECTIVE DATE	OBSOLETE DATE	EFFECTIVE REVISION	OBSOLETE REVISION
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		100.0%	1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default	
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		100.0%	1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default	
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	100.0%	2	Work Order	2	Ea	S-1 Taxable	01/03/1970		Default	
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		100.0%	1	Stock	1	Ea	S-1 Taxable	01/03/1970		Default	

Edit | Back | Supply Chain Snapshot | Actions ▾

https://tstdrv2073248.app.netsuite.com/app/accounting/manufacturing/mfgrouting.nl?id=6&e=T&l=T

Manufacturing Routing

Save Cancel | Actions ▾

Primary Information

SUBSIDIARY *
United Kingdom

ITEM
MBK001

LOCATION *
Manchester

NAME *
MCR - MBK001

MEMO

☑ DEFAULT
☐ INACTIVE
☐ AUTO-CALCULATE LAG

Routing Steps Component Per Operation Communication Workflow

OPERATION SEQUENCE	OPERATION NAME	MANUFACTURING WORK CENTER	MACHINE RESOURCES	LABOR RESOURCES	MANUFACTURING COST TEMPLATE	SETUP TIME (MIN)	RUN RATE (MIN/UNIT)	LAG TYPE	LAG AMOUNT	LAG UNITS
10	Weld	MCR - Welding Station A	1	1	MCR - Welding Station A	30	60			
20	Chain Assembly	MCR - Assembly Cell A	0	1	MCR - Assembly Cell A	30	25	Quantity	1	Ea
30	Wheel Assembly	MCR - Wheel Assembly	0	1	MCR - Wheel Assembly	30	20			
40	Final Assembly	MCR - Assembly Cell A	0	1	MCR - Assembly Cell A	10	20	Quantity	1	Ea
50	QC Inspection	MCR - Inspection Zone	0	1	MCR - Inspection Zone	10	15			

✔ Add ✖ Cancel + Insert 🗑 Remove

Save Cancel | Actions ▾

https://tstdrv2073248.app.netsuite.com/app/accounting/transactions/workord.nl?id=21805

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Search

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NetSuite - Administrator

Activities Payments **Transactions** Lists Reports Analytics Documents Setup Customization Fixed Assets Administration & Controls Vendor Prepayment Support

Work Order 🔍

← → List Search Customise

WO0000087   RELEASED

Edit Back **Create Build** Close Print BOM   📄▾ Actions ▾

Primary Information

ORDER # WO0000087	DATE 30/07/2019	QUANTITY 3	SCHEDULING METHOD
SUBSIDIARY United Kingdom	REVISION Default	UNITS Each	PRODUCTION START DATE 30/07/2019
ASSEMBLY MBK001 All Terrain Mountain Bike	MANUFACTURING ROUTING	BUILDABLE 3	PRODUCTION END DATE 30/07/2019
LOCATION Manchester	☐ WIP	BUILT 0	☐ AUTO-CALCULATE LAG
MEMO	☐ MARK SUB-ASSEMBLIES PHANTOM	STATUS Released	PLANNER
	☑ FIRMED		

Classification

CUSTOMER	CLASS Sports & Outdoor Goods	DEPARTMENT Production : Finished Goods

Scheduling

SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 2	SCHEDULING ATTRIBUTE 3	SCHEDULE SEQUENCE

PROJECT

Items Inspection Analysis Communication Related Records System Information Custom EFT Source Transaction Case Record Target Transaction Case Record Sales Team

ITEM	DESCRIPTION	BOM QUANTITY	QUANTITY	UNITS	INVENTORY DETAIL	COMMITTED	USED IN BUILD	BACK ORDERED	AVAILABLE	ON HAND	COMPONENT YIELD	COMMIT	COMMITMENT CONFIRMED	ITEM SOURCE	TRANSACTION	PO VENDOR	PLANNED COMPONENT ISSUE DATE	OPERATION	OPTIONS	HISTORY
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	3	Ea		3	0	0	30	50	100.0%	Available Qty		Stock		Johnson Supply	30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	3	Ea		3	0	0	20	40	100.0%	Available Qty		Stock		AAK	30/07/2019 8:00 am			History
WHL001 All Terrain MB Wheel	All Terrain MB Wheel	6	6	Ea		6	0	0	6	36	100.0%	Available Qty		Work Order	WO0000088		30/07/2019 8:00 am			History
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	3	Ea		3	0	0	44	64	100.0%	Available Qty		Stock		AAK	30/07/2019 8:00 am			History

Edit Back Create Build Close Print BOM   📄▾ Actions ▾

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Search

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Activities Payments **Transactions** Lists Reports Analytics Documents Setup Customization Fixed Assets Administration & Controls Vendor Prepayment Support

Work Order

List Search Customise

WO0000087 **RELEASED**

Edit | Back | Issue Components | Enter Completion | Enter Completion with Backflush | Close | Print BOM | Actions ▾

Primary Information

ORDER #	MANUFACTURING ROUTING	STATUS
WO0000087	MCR - MBK001	Released
CUSTOMER	☐ AUTO-CALCULATE LAG	☑ FIRMED
	BUILT	MEMO
PROJECTX	0	
	QUANTITY SCRAPPED	SCHEDULING METHOD
ASSEMBLY	0	Backward
MBK001 All Terrain Mountain Bike	QUANTITY	PRODUCTION START DATE
REVISION	3	30/07/2019
Default	UNITS	PRODUCTION END DATE
☐ MARK SUB-ASSEMBLIES PHANTOM	Each	30/07/2019
☑ WIP	DATE	
	30/07/2019	

Classification

SUBSIDIARY	PROJECT	LOCATION
United Kingdom	Sports & Outdoor Goods	Manchester
DEPARTMENT		
Production : Finished Goods		
SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 3	PLANNER
SCHEDULING ATTRIBUTE 2	SCHEDULE SEQUENCE	

Items Operations Planned Time Sales Team Communication Related Records System Information Custom Work Order Analysis EFT Inspection Source Transaction Case Record Target Transaction Case Record

ITEM	OPERATION	COMMITTED	USED IN BUILD	BACK ORDERED	COMPONENT YIELD	BOM QUANTITY	QUANTITY	UNITS	INVENTORY DETAIL	DESCRIPTION	COMMIT	COMMITMENT CONFIRMED	ORDER PRIORITY	OPTIONS	ITEM SOURCE	TRANSACTION	PLANNED COMPONENT ISSUE DATE	HISTORY
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	0	0	100.0%	3	3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	0	0	100.0%	3	3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History
WHL001 All Terrain MB Wheel		6	0	0	100.0%	6	6	Ea		All Terrain MB Wheel	Available Qty				Work Order	WO0000088	30/07/2019 9:50 am	History
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	0	0	100.0%	3	3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History

Edit | Back | Issue Components | Enter Completion | Enter Completion with Backflush | Close | Print BOM | Actions ▾

https://tstdrv2073248.app.netsuite.com/app/accounting/transactions/woissue.nl?id=21805&e=T&transform=workord&memdoc=0&whence=

ORACLE **NETSUITE**

Search

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🕐 ⭐ 🏠   Activities   Payments   **Transactions**   Lists   Reports   Analytics   Documents   Setup   Customization   Fixed Assets   **Administration & Controls**   Vendor Prepayment   Support

📄 **Work Order Issue** 🔍

List   Search   Customise   More

Save   Cancel   Reset

Primary Information

REFERENCE #
To Be Generated

MANUFACTURING ROUTING
MCR - MBK001

CREATED FROM
Work Order #WO0000087

ASSEMBLY
MBK001 All Terrain Mountain Bike

MEMO

POSTING PERIOD
Jul 2019

DATE *
30/07/2019

FORM *
UK MFG MM - Work Order Issue Form

Classification

SUBSIDIARY
United Kingdom

LOCATION
Manchester

PLANNER

CLASS
Sports & Outdoor Goods

DEPARTMENT
Production : Finished Goods

Issue Operation Component

STARTING OPERATION

ENDING OPERATION

REVISION
Default

Components   Inspection   Cost Analysis   Communication   System Information   EFT   Source Transaction Case Record   Target Transaction Case Record

COMPONENT	OPERATION	QUANTITY	INVENTORY DETAIL
FRM001		3	📦
BHB001		3	📦
WHL001		6	📦
HDW002		3	📦

Save   Cancel   Reset

https://tstdrv2073248.app.netsuite.com/app/accounting/transactions/impact.nl?trantype=woissue&searchid=-36&Transaction_INTERNALID=21811&Transaction_INTERNALIDtype=ANYOF&label=Work+Order+Issue

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Search

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Activities Payments **Transactions** Lists Reports Analytics Documents Setup Customization Fixed Assets **Administration & Controls** Vendor Prepayment Support

GL Impact

Return to Work Order Issue #WOI0000020

TOTAL: 8

ACCOUNT	AMOUNT (DEBIT)	AMOUNT (CREDIT)	POSTING	MEMO	NAME	SUBSIDIARY	DEPARTMENT	PROJECT	LOCATION	CUSTOM SCRIPT
12010 Inventory : Inventory in Stock		£397.50	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£397.50		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£105.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£105.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£481.45	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£481.45		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12010 Inventory : Inventory in Stock		£165.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£165.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	

https://tstdrv2073248.app.netsuite.com/app/accounting/transactions/workord.nl?id=21805&whence=

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Activities Payments **Transactions** Lists Reports Analytics Documents Setup Customization Fixed Assets Administration & Controls Vendor Prepayment Support

Work Order 🔍

← → List Search Customise

WO0000087   RELEASED

[Edit] [Back] | [Issue Components] **[Enter Completion]** [Enter Completion with Backflush] [Close] [Print BOM] | 📄▾ Actions ▾

Primary Information

ORDER #	MANUFACTURING ROUTING	STATUS
WO0000087	MCR - MBK001	Released
CUSTOMER	☐ AUTO-CALCULATE LAG	☑ FIRMED
PROJECTX	BUILT	MEMO
	0	
	QUANTITY SCRAPPED	SCHEDULING METHOD
ASSEMBLY	0	Backward
MBK001 All Terrain Mountain Bike	QUANTITY	PRODUCTION START DATE
REVISION	3	30/07/2019
Default	UNITS	PRODUCTION END DATE
☐ MARK SUB-ASSEMBLIES PHANTOM	Each	30/07/2019
☑ WIP	DATE	
	30/07/2019	

Classification

SUBSIDIARY	PROJECT	LOCATION
United Kingdom	Sports & Outdoor Goods	Manchester
DEPARTMENT		
Production : Finished Goods		
SCHEDULING ATTRIBUTE 1	SCHEDULING ATTRIBUTE 3	PLANNER
SCHEDULING ATTRIBUTE 2	SCHEDULE SEQUENCE	

Items Operations Planned Time Sales Team Communication Related Records System Information Custom Work Order Analysis EFT Inspection Source Transaction Case Record Target Transaction Case Record

ITEM	OPERATION	COMMITTED	USED IN BUILD	BACK ORDERED	COMPONENT YIELD	BOM QUANTITY	QUANTITY	UNITS	INVENTORY DETAIL	DESCRIPTION	COMMIT	COMMITMENT CONFIRMED	ORDER PRIORITY	OPTIONS	ITEM SOURCE	TRANSACTION	PLANNED COMPONENT ISSUE DATE	HISTORY
PRODUCTION COMPONENTS : FRM001 All Terrain MB Frame		3	0	0	100.0%	3	3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History
PRODUCTION COMPONENTS : BHB001 MB Handle Bar STD		3	0	0	100.0%	3	3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History
WHL001 All Terrain MB Wheel		6	0	0	100.0%	6	6	Ea		All Terrain MB Wheel	Available Qty				Work Order	WO0000088	30/07/2019 9:50 am	History
PRODUCTION COMPONENTS : HDW002 MB Hardware Pack STD		3	0	0	100.0%	3	3	Ea			Available Qty				Stock		30/07/2019 9:50 am	History

[Edit] [Back] | [Issue Components] [Enter Completion] [Enter Completion with Backflush] [Close] [Print BOM] | 📄▾ Actions ▾

https://tstdrv2073248.app.netsuite.com/app/accounting/transactions/wocompl.nl?id=21805&e=T&transform=workord&memdoc=0&whence=

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Search

Help | Feedback | Cathy cadigan NetSuite - Administrator

Activities | Payments | Transactions | Lists | Reports | Analytics | Documents | Setup | Customization | Fixed Assets | Administration & Controls | Vendor Prepayment | Support

Work Order Completion

List | Search | Customise | More

Save | Cancel | Reset

Primary Information

CUSTOM FORM *
UK MFG MM - Work ...r Completion Form

REFERENCE #
To Be Generated

ASSEMBLY
MBK001 All Terrain Mountain Bike

MANUFACTURING ROUTING
MCR - MBK001

UNITS
Each

☐ BACKFLUSH

WORK ORDER QUANTITY
3

PROJECTED VALUE

CREATED FROM
Work Order #WO0000087

DATE *
30/07/2019

POSTING PERIOD
Jul 2019

MEMO

Classification

SUBSIDIARY
United Kingdom

LOCATION
Manchester

CLASS
Sports & Outdoor Goods

DEPARTMENT
Production : Finished Goods

Operation Completion

STARTING OPERATION *
10

ENDING OPERATION *
10

COMPLETED QUANTITY
3

Assembly Detail

QUANTITY TO BUILD

INVENTORY DETAIL

SCRAP QUANTITY

REVISION
Default

PLANNER

Operations | Inspection | Cost Analysis | Communication | System Information | EFT | Source Transaction Case Record | Target Transaction Case Record

OPERATION SEQUENCE	OPERATION NAME	MANUFACTURING WORK CENTER	MACHINE RESOURCES	LABOR RESOURCES	INPUT QUANTITY	QUANTITY REMAINING	PREDECESSOR COMPLETED QUANTITY	COMPLETED QUANTITY	RECORD SETUP TIME	MACHINE SETUP TIME (MIN)	LABOR SETUP TIME (MIN)	MACHINE RUN TIME (MIN)	LABOR RUN TIME (MIN)
10	Weld	MCR - Welding Station A	1	1	3	3		3	☑	30	30	180	180
20	Chain Assembly	MCR - Assembly Cell A	0	1	3	3	0		☑				
30	Wheel Assembly	MCR - Wheel Assembly	0	1	3	3	0		☑				
40	Final Assembly	MCR - Assembly Cell A	0	1	3	3	0		☑				
50	QC Inspection	MCR - Inspection Zone	0	1	3	3	0		☑				

https://tstdrv2073248.app.netsuite.com/app/accounting/transactions/impact.nl?trantype=wocompl&searchid=-36&Transaction_INTERNALID=21812&Transaction_INTERNALIDtype=ANYOF&label=Work+Order+Completion

ORACLE NETSUITE

Search

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NetSuite - Administrator

Activities Payments **Transactions** Lists Reports Analytics Documents Setup Customization Fixed Assets Administration & Controls Vendor Prepayment Support

GL Impact

Return to Work Order Completion #WCO0000060

TOTAL: 8

ACCOUNT	AMOUNT (DEBIT)	AMOUNT (CREDIT)	POSTING	MEMO	NAME	SUBSIDIARY	DEPARTMENT	PROJECT	LOCATION	CUSTOM SCRIPT
65015 Staff Costs : Direct Labour		£45.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£45.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
65017 Staff Costs : Indirect Labour		£30.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£30.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
60020 Administration Expenses : Manufacturing Expenses (Machine & Labour)		£45.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£45.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
60020 Administration Expenses : Manufacturing Expenses (Machine & Labour)		£30.00	Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	
12040 Inventory : WIP	£30.00		Yes			Parent Company : United Kingdom	Production : Finished Goods	Sports & Outdoor Goods	Manchester	

MANUFACTURING TASK SCHEDULER
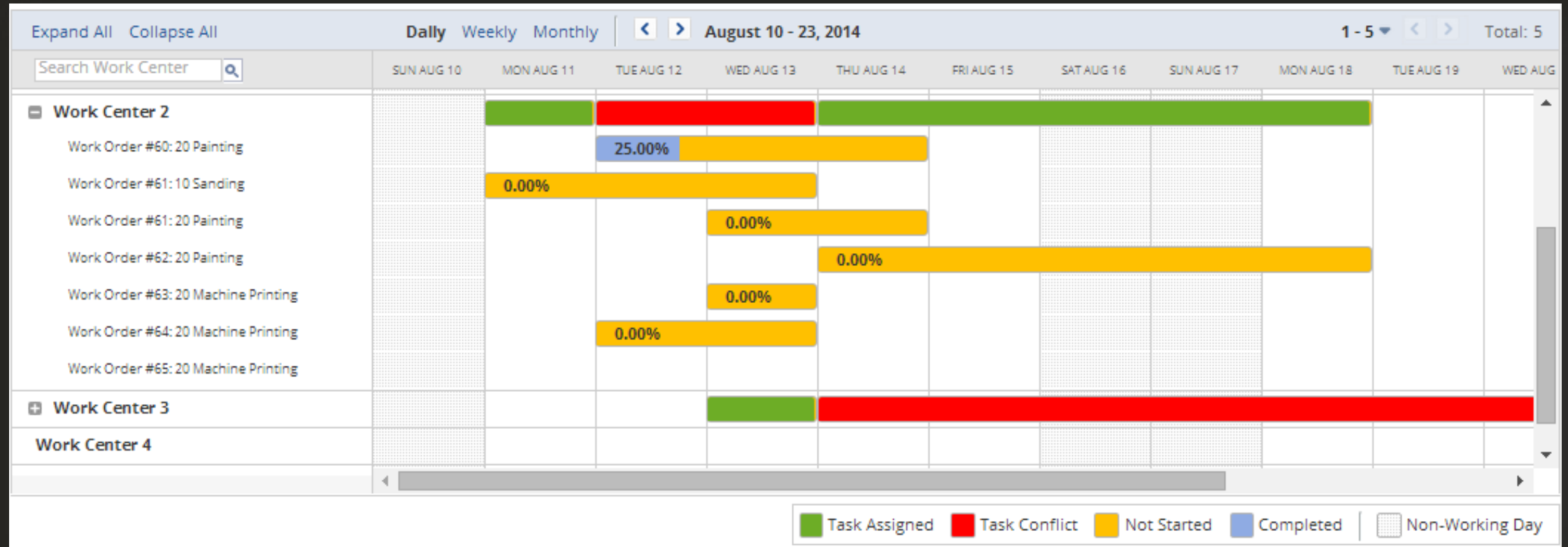
RESCHEDULING – FORWARD SCHEDULING METHOD
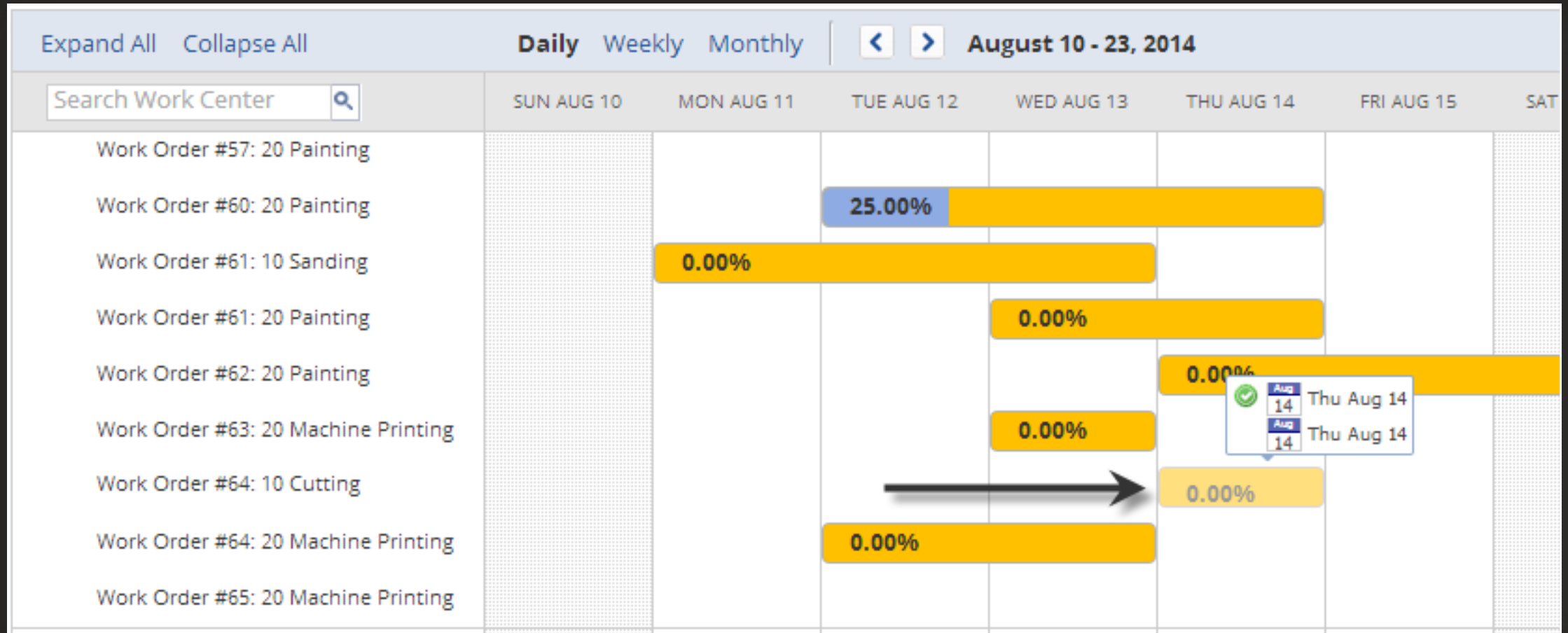
WORK CENTRE REASSIGNMENT
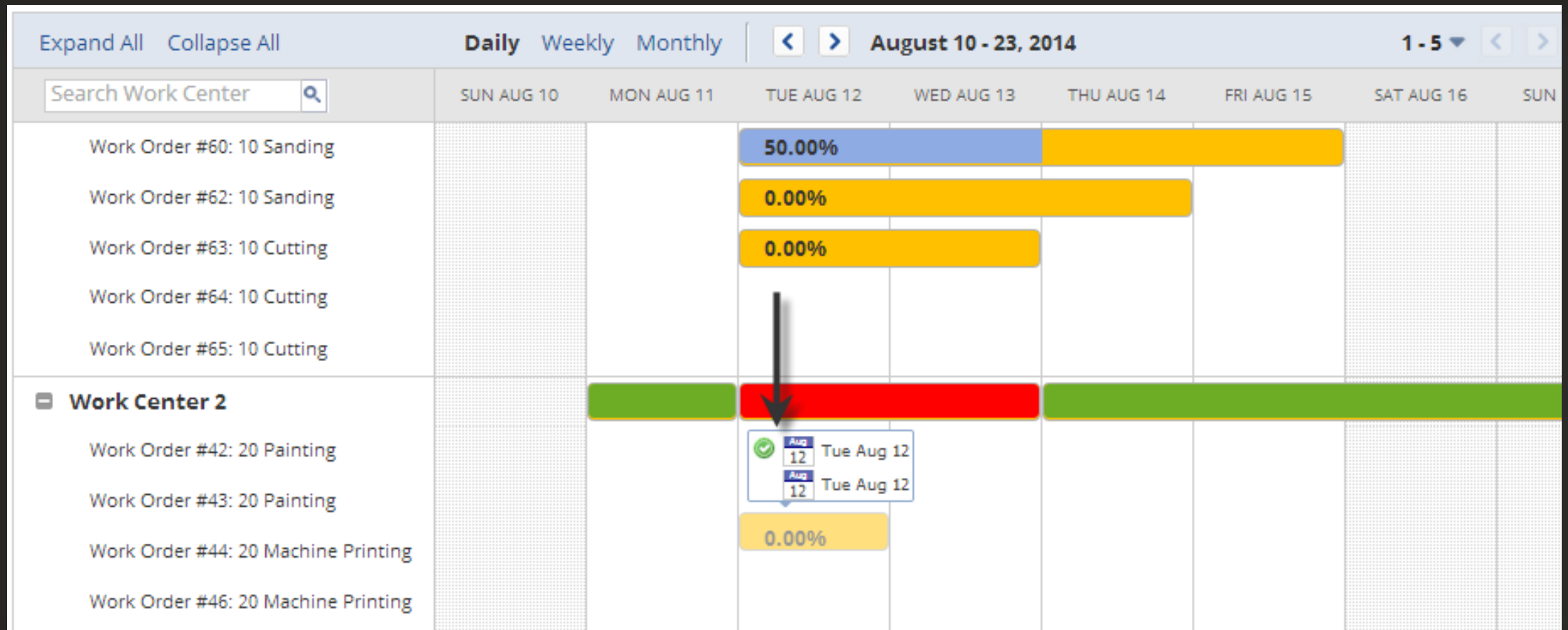
WHAT IT MEANS FOR YOUR PROSPECT

- ✓ Manufacturing Visibility
  - ▪ Ability to track where your product is in the manufacturing process
  - ▪ Ability to see how well we are producing to plan

- ✓ Work Order Metrics
  - ▪ Labor efficiency
  - ▪ Scrap tracking
  - ▪ Production variances and WIP

- ✓ Additional Reporting
  - ▪ Online dispatch List
  - ▪ In process Work orders
  - ▪ Late Work Orders…

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ADVANCED MANUFACTURING

- Track BOM
- Create Shop Floor Tracking Mechanism
- Fixed Lead Time Planning
- Consume Component upon completion and create Finished Good item
- Calculate Finished Good cost from Components

Work in Process and Routings →

- + WO and Assemblies
- Routings
- Capture Operational Setup and Run Time
- Variable Lead Time Planning
- Forward/Backward Schedule
- Backflush Material/ Labor or Complete separately
- Cost Collection at Operational Level
- Calculate Finished Good cost from Components and Operations

Work in Process and Routings →

- +WO and Assemblies
- +WIP and Routings
- Asset based Work Bench
- Discrete and Batch setup
- Finite based Work Order Scheduling
- Capacity Planning
- Backflush Material/ Labor at Operation used at
- Capture Actual Operational Setup and Run Times as they happen
- Tablet/Scanner for Real Time Work Order Tracking
- Downtime reporting
- In Process Quality

Advanced Manufacturing →

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ADVANCED MANUFACTURING STRENGTHS

Capacity Planning

Verifies that there is sufficient resource capacity to meet the scheduling requirements

Finite Scheduling

Ensure that work proceeds at an even and efficient pace through the facility

Shop Floor Execution

Allows for the collection of downtime, production loss and production results

Reporting

Shop Floor Information and status in real-time allowing you to make better decisions

ORACLE NETSUITE

COMMON BUSINESS CHALLENGES

UNDERSTANDING YOUR *PROSPECT'S* CHALLENGES

SCHEDULING

Visibility into potential Work Center constraints

Unrealistic production schedules which fail to optimize production capacity

EXECUTION

Shop reporting is done after the fact or ad hoc

Work Center efficiency issues may go unnoticed until too late

REPORTING

Lack of visibility into corporate KPIs around product throughput or resource efficiencies

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NETSUITE

in action

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Capacity Resource Planning

Calculates cumulative work center load **and** capacity remaining

Capacity Planning Reports   More

[Print Report] | [Display Plan]

Select Report Parameters

CAPACITY PLAN
CE - 1 of 3 MO ▼

SELECT REPORT
Work Center Utilization By Period ▼

Work Center Summary

WORK CENTER	UNITS PLANNED	PLANNED LABOR HOURS	LABOR HOURS AVAILABLE	PLANNED LABOR UTILIZATION %	PLANNED MACHINE HOURS	MACHINE HOURS AVAILABLE	PLANNED MACHINE UTILIZATION %
D-Packaging	305.0	20.3	200.0	10.2	10.2	200.0	5.1
P-Blending	3,250.0	32.5	200.0	16.3	35.0	200.0	17.5
P-Inspection	7,350.0	542.4	200.0	271.2	544.2	200.0	272.1
P-Packaging	7,350.0	0.7	200.0	0.3	36.6	200.0	18.3
D-Hand Assembly	305.0	25.5	200.0	12.8	25.7	200.0	12.8
D-Inspection	305.0	25.5	200.0	12.8	25.5	200.0	12.8
P-Baking	4,100.0	4.1	200.0	2.0	2.5	200.0	1.3

[✔ Add] [✖ Cancel] [+ Insert] [🗑 Remove]

[Print Report] | [Display Plan]

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NetSuite - Customer   AM Tablet   Online Lead Form

ORACLE | NETSUITE   Solentim

Search   🔍   ⚑▾   ❓ Help   👤▾ Tom Kess
Solentim - Adv Mfg - AM Production Manager

🕐   ★   🏠   Activities   Shipping   Receiving   Inventory   Reports   Documents   Setup   Advanced Manufacturing   **Planning & Scheduling**   Support

Create Rough Cut Capacity Plan   More

| Refresh | | Planned Demand | Resource Supply | Save The Plan |

Capacity Plan

LOCATION	PLAN NAME	PLAN TYPE
Wimborne ▾ ⧉	Wimborne - November	Work Orders ▾

Planning Horizon

HORIZON START	TIME FENCE	COMMENTS
30/10/2017 📅	Week ▾	
HORIZON END		
1/12/2017 📅		

Planned Demand   Resource Supply

Product Demand •

ORDER NO	ITEM NO	DESCRIPTION	QUANTITY	PRODUCTION DATE	PLANNING PERIOD
WRK00001731	Cell VIPS - Small	Cell Seeding	1	6/11/2017	6/11/2017
WRK00001730	Cell VIPS - Medium	Cell Seeding	1	3/11/2017	30/10/2017
WRK00001729	Cell VIPS - Large	Cell Seeding	1	1/11/2017	30/10/2017
WRK00001725	Cell Metric - Small	Cell Metric® Imager	1	1/11/2017	30/10/2017
WRK00001724	Cell Metric - Medium	Cell Metric® Imager	1	1/11/2017	30/10/2017
WRK00001723	Cell Metric - Large	Cell Metric® Imager	1	30/10/2017	30/10/2017
WRK00001726	Cell Metric CLD - Large	Cell Metric® CLD Premium with built-in 10 plate loader	1	30/10/2017	30/10/2017
WRK00001727	Cell Metric CLD - Medium	Cell Metric® CLD Premium with built-in 10 plate loader	1	30/10/2017	30/10/2017

NetSuite - Customer | AM Tablet | Online Lead Form

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Help   Tom Kess
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Activities   Shipping   Receiving   Inventory   Reports   Documents   Setup   Advanced Manufacturing   Planning & Scheduling   Support

Create Rough Cut Capacity Plan

More

Refresh | Planned Demand | Resource Supply | Save The Plan

Capacity Plan

LOCATION
Wimborne

PLAN NAME
Wimborne - November

PLAN TYPE
Work Orders

Planning Horizon

HORIZON START
30/10/2017

TIME FENCE
Week

COMMENTS

HORIZON END
1/12/2017

Planned Demand | Resource Supply

Resources •

WORK CENTER	PLANNING PERIOD	STD DAYS	HEAD COUNT	LABOR SHIFT HOURS	TOTAL DAILY LABOR	PERIOD LABOR HOURS	MACHINES	MACHINE SHIFT HOURS	TOTAL DAILY MACHINE	PERIOD MACHINE HOURS
Wimborne - Person A	30/10/2017	5	1	8	8	40	1	8	8	40
Wimborne - Person A	6/11/2017	5	1	8	8	40	1	8	8	40
Wimborne - Person A	13/11/2017	5	1	8	8	40	1	8	8	40
Wimborne - Person A	20/11/2017	5	1	8	8	40	1	8	8	40
Wimborne - Person A	27/11/2017	5	1	8	8	40	1	8	8	40
Wimborne - Person B	30/10/2017	5	1	7.5	7.5	37.5	1	7.5	7.5	37.5
Wimborne - Person B	6/11/2017	5	1	7.5	7.5	37.5	1	7.5	7.5	37.5

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Planned Production Summary

Location : Wimborne

Horizon : 30/10/2017 To 1/12/2017

Plan Name : Wimborne - November

Report : Planned Work Center Production Summary

Work Center	Period	Planned Units	Planned Labor Hours	Available Labor Hours	Planned Labor Utilization	Planned Machine Hours	Machine Hours Available	Planned Machine Utilization
Wimborne - Person A	30/10/2017	4	5.5	40	13.8	7.5	40	18.8
Wimborne - Person B	30/10/2017	12	35.25	37	95.3	41.25	37	111.5
	6/11/2017	4	5.5	37	14.9	7.5	37	20.3
Wimborne - Person C	30/10/2017	8	18.5	20	92.5	22.5	20	112.5
Wimborne - Person D	30/10/2017	4	14	12	116.7	15	12	125.0

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Finite Capacity Scheduling

All critical scheduling information consolidated into one view

Color code status, real-time, reschedule, material availability, production results, downtime, quality, charts, etc.

Work Order Management   More

[List Work Orders] | [View Contents] [Displays] [Production Data Entry]

Planning Horizon

WORK CENTER	HORIZON START	VIEW FORMAT
D-Hand Assembly	5/1/2016	Detail View
JOB STATUS	HORIZON END	
All	6/30/2016	

Master Plan   Work Calendar

Work Orders•   Mfg Operations   Material Requirements   Related Work Orders   Production Results   Production Loss   Equipment Down Time   Quality Control   Labor Charges

[View Contents]

SELECT		WORK ORDER	ITEM NO	ITEM DESCRIPTION	PLANNING PRIORITY	ORDER START	OP START	DATE DUE	PLANNED QTY	RECORDED QTY	OPEN QTY	▲ % COMPLETE
☐	●	Work Order #WRK00001513	WRB400S	Activity Wearable Device 400 Black	00 - Rush Order	5/1/2016	5/1/2016	5/5/2016	1.0	0.0	1.0	0.0
☐	●	Work Order #WRK00001514	WRB400S	Activity Wearable Device 400 Black	01 - Priority Override	5/1/2016	5/1/2016	5/5/2016	3.0	0.0	3.0	0.0
☐	●	Work Order #WRK00001498	WRB400S	Activity Wearable Device 400 Black	02 - Standard Priority	5/4/2016	5/4/2016	6/18/2016	1.0	1.0	0.0	100.0
☐	●	Work Order #WRK00001499	WRB400S	Activity Wearable Device 400 Black	02 - Standard Priority	5/4/2016	5/4/2016	6/18/2016	3.0	0.0	3.0	0.0
☐	●	Work Order #WRK00001500	WRB400S	Activity Wearable Device 400 Black	00 - Rush Order	5/4/2016	5/4/2016	5/20/2016	3.0	2.0	1.0	66.0
☐	●	Work Order #WRK00001501	WRB400S	Activity Wearable Device 400 Black	03 - Build For Stock	5/4/2016	5/4/2016	5/20/2016	2.0	0.0	2.0	0.0

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🕐 ★ 🏠 Activities   Shipping   Receiving   Inventory   Reports   Documents   Setup   Advanced Manufacturing   **Planning & Scheduling**   Support

| List Work Orders | Preview Schedule | Release Work Orders |

Display Filters

LOCATION
Wimborne ▼ ⬚

PRODUCTION CLASS
▼ + ⬚

HORIZON START
1/12/2017 📅

HORIZON END
30/4/2018 📅

PLANNED ORDERS
Display All ▼

RELEASED ORDERS
Use Date Filter ▼

SORT BY
Planning Code ▼

THEN BY
Schedule Code ▼

SPECIFIC WORK ORDER

Work Order Release Options

SCHEDULE DATE
1/12/2017 📅

SCHEDULE METHOD
Forward Schedule ▼

CHILD WORK ORDERS
Do Not Release Child Work Orders ▼

RELEASED TO PRODUCTION
Work Order Count = 2 Units Planned = 2

Select Work Orders To Release •

| Mark All | Unmark All | Sort Demand |

RELEASE	SEQUENCE		WORK ORDER	ITEM NO	DESCRIPTION	QUANTITY	ROUTING	PLANNED START	STATUS	DELIVERY DATE	PLANNING CODE	SCHEDULE CODE	ORDER CODE ▲
☑	2	●	WRK00001757	Cell Metric - Medium	Cell Metric® Imager	15	Cell Metric - Medium	15/1/2018	Planned Firm		02 - Standard Priority	0202 (SOL-MET-SOL-MED)	
☑	1	●	WRK00001758	Cell Metric - Medium	Cell Metric® Imager	15	Cell Metric - Medium	5/3/2018	Planned Firm		02 - Standard Priority	0202 (SOL-MET-SOL-MED)	
☐		●	WRK00001760	Cell Metric CLD - Medium	Cell Metric® CLD Premium with built-in 10 plate loader	1	Cell Metric CLD - Medium	14/12/2017	In Process			0102 (SOL-CLD-SOL-MED)	
☐		●	WRK00001761	Cell Metric CLD - Medium	Cell Metric® CLD Premium with built-in 10 plate loader	1	Cell Metric CLD - Medium	14/12/2017	Closed			0102 (SOL-CLD-SOL-MED)	

| List Work Orders | Preview Schedule | Release Work Orders |

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ℕ NetSuite - Customer   ℕ AM Tablet   ℕ Online Lead Form

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Work Order Management   More

List Work Orders | View Contents | Edit Work Order | Displays | Production Data Entry

Planning Horizon

WORK CENTER
Wimborne - Person C ▾ + ⬈

JOB STATUS
All ▾

HORIZON START
1/12/2017 📅

HORIZON END
30/12/2017 📅

VIEW FORMAT
Detail View ▾

Master Plan   Work Calendar   ☰

Work Orders • Mfg Operations Material Requirements Related Work Orders Production Results Production Loss Equipment Down Time Quality Control Labor Charges

View Contents

SELECT		WORK ORDER	ITEM NO	ITEM DESCRIPTION	PLANNING PRIORITY	ORDER START	OP START	DATE DUE	PLANNED QTY	RECORDED QTY	OPEN QTY	▲ % COMPLETE
☐	🟡	Work Order #WRK00001758	Cell Metric - Medium	Cell Metric® Imager	02 - Standard Priority	1/12/2017	1/12/2017		15.0	0.0	15.0	0.0
☐	🟢	Work Order #WRK00001760	Cell Metric CLD - Medium	Cell Metric® CLD Premium with built-in 10 plate loader		14/12/2017	14/12/2017		1.0	1.0	0.0	100.0
☐	🔴	Work Order #WRK00001761	Cell Metric CLD - Medium	Cell Metric® CLD Premium with built-in 10 plate loader		14/12/2017	14/12/2017		1.0	1.0	0.0	100.0
☐	🟢	Work Order #WRK00001759	Cell Metric - Medium	Cell Metric® Imager	00 - Rush Order	27/11/2017	18/12/2017		15.0	5.0	10.0	33.0

List Work Orders | View Contents | Edit Work Order | Displays | Production Data Entry

Gantt Chart Scheduling

Gantt Chart View (non Interactive!)

Color coded to easily track work orders

Pop-up views provide detailed information

SHOP FLOOR EXECUTION – Touch Pad Tablet

Active Run in 'Green'

Sequenced based on Finite Shop Floor Schedule

Easy Menu Items

NETSUITE		Work Queue			
FOR MANUFACTURERS					

WORK CENTER
DAN Big Jars Ln 1 | Clear | List

START DATE
03/28/2016 | Select

END DATE
04/08/2016 | Select

PLANNED START	ITEM	WORK ORDER	OPERATION	ORDERED	PRODUCED
03/31/2016	DAN 4004	WRK00000717	110	900	1455
04/01/2016	DAN 4004	WRK00000722	110	900	402
03/28/2016	DAN 4004	WRK00000724	110	1800	770
03/29/2016	DAN 4004	WRK00000725	110	900	460
04/04/2016	DAN 4004	WRK00000727	110	900	
04/05/2016	DAN 4004	WRK00000728	110	200	
04/07/2016	DAN 4004	WRK00000730	110	500	

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Work Queue

LISA SCHAGUNN - DATA SCANNER

WORK CENTER			START DATE		END DATE		QUICK SEARCH	
Wimborne - Person C	Clear	List	01/12/2017	Select	31/12/2017	Select		Clear

▼ PLANNED START	▼ ITEM	▼ WORK ORDER	▼ OPERATION	▼ ORDERED	▼ PRODUCED	▼ PLANNER	▼ PRIORITY	STATUS
1/12/2017 9:00 am	Cell Metric - Medium	WRK00001758	10	15		Stonelake	02 - Standard Priority	
12/12/2017 2:00 pm	Cell Metric - Medium	WRK00001758	30	15		Stonelake	02 - Standard Priority	
4/12/2017 4:30 pm	Cell Metric - Medium	WRK00001758	20	15		Stonelake	02 - Standard Priority	
1/12/2017 12:00 am	Cell Metric - Medium	WRK00001759	30	15	5	Stonelake	00 - Rush Order	
14/12/2017 12:00 am	Cell Metric CLD - Medium	WRK00001760	40	1	1	Stonelake	- None -	
14/12/2017 12:00 am	Cell Metric CLD - Medium	WRK00001760	10	1	1	Stonelake	- None -	
14/12/2017 12:00 am	Cell Metric CLD - Medium	WRK00001760	30	1	1	Stonelake	- None -	
14/12/2017 12:00 am	Cell Metric CLD - Medium	WRK00001760	20	1	1	Stonelake	- None -	

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LISA SCHAGUNN - DATA SCANNER

Wimborne - Person C

Work Order - WRK00001758   Operation - 20   Item - Cell Metric - Medium

Start

ⓘ

PRODUCTION

Enter Production - 0 / 15

MATERIAL ISSUE ⚙

LCD015	MNB001	MNC001
PCB005	- Empty -	- Other -

SCRAP ⚙

Calibration Failure	Electrical Damage	Empty
Machine Loss	Partial Barrel	- Other -

DOWNTIME ⚙

Late Maintenance	Machine Breakdown	Maintenance

WHAT IT MEANS FOR YOUR PROSPECT

✓ Real Time Information
- - Integrated Data Collection
- - Near real time visibility of Inventory
- - Mobile interface allows for immediate insight into ongoing production activities

  ✓ Visibility into Critical Metrics
- Insight into Resource capacity prior to schedule
- Alert to inefficient metrics or unexpected downtime
- Create realistic schedule based on capacity

  ✓ Additional Reporting
- 40+ additional reports/KPI's for your use

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ADVANCED MANUFACTURING – (PHASE ONE?)

Work Orders and Assembly

- Track BOM
- Create Shop Floor Tracking Mechanism
- Fixed Lead Time Planning
- Consume Component upon completion and create Finished Good item
- Calculate Finished Good cost from Components

Work in Process and Routings

- + WO and Assemblies
- Routings
- Capture Operational Setup and Run Time
- Variable Lead Time Planning
- Forward/Backward Schedule
- Backflush Material/ Labor or Complete separately
- Cost Collection at Operational Level
- Calculate Finished Good cost from Components and Operations

Advanced Manufacturing

- +WO and Assemblies
- +WIP and Routings
- Asset based Work Bench
- Discrete and Batch setup
- Finite based Work Order Scheduling
- Capacity Planning
- Backflush Material/ Labor at Operation used at
- Capture Actual Operational Setup and Run Times as they happen
- Tablet/Scanner for Real Time Work Order Tracking
- Downtime reporting
- In Process Quality

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Learning Cloud Support

Thank You