



Manufacturing Projects Management

Many organizations in the manufacturing space deliver services before manufacturing starts as well as after it finishes. Such organizations often use NetSuite Projects to coordinate activities around the delivery of those services. While the manufacturing and service delivery activities are closely interconnected, to date there has been no effective way in NetSuite to establish and view those dependencies from a “single pane of glass” within a Project. For those looking to manage manufacturing and service delivery via Projects directly within their NetSuite environment, Caravel’s Manufacturing Projects SuiteBundle provides the needed functionality to do so.

Linkage of Project Tasks to Work Orders and Manufacturing Operation Tasks

The SuiteBundle creates Project Tasks for all related Work Orders and their Manufacturing Operation Tasks. The information on the tasks is kept up to date and reflects the real-time status of manufacturing providing a single-pane glass through which to view the project and its dependent manufacturing status.

WF150 Deluxe Waco... Waco Water Authority

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Primary Information

JOB ID: WF150 Deluxe Waco... CUSTOMER: Waco Water Authority TOP LEVEL WORK ORDER: Work Order #WO-1259
JOB NAME: WF150 Deluxe Waco... STATUS:

Project Dates

START DATE: 3/27/2024 ESTIMATED END DATE:
ESTIMATED WORK: 196.00 REMAINING WORK: 196.00 CALCULATED END DATE: 5/7/2024
ACTUAL WORK: 0.00 PERCENT WORK COMPLETE: 0.0% LAST BASELINE DATE: 3/20/2024

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Project Tasks / Milestones

VIEW: CP | Mfg Planning

[New Project Task](#) [New Milestone](#) [View Gantt Chart](#) [Customize View](#)

EDIT	ID	NAME	BOM LEVEL	MFG TASK TYPE	WORK ORDER	START DATE	END DATE	EST CONV TIME	EST CONV COST	SUM EST CONV TIME	SUM EST CONV COST
Edit	1	No			PRE-PRODUCTION	3/27/2024	4/3/2024			24	
Edit	2	No			Assign Project Engineers	3/27/2024	3/27/2024			4	
Edit	3	No			Kick-Off Meeting	3/28/2024	3/29/2024			8	
Edit	4	No			Engineering Submittal	4/1/2024	4/1/2024			4	
Edit	5	No			Engineering Design Review	4/3/2024	4/3/2024			8	
Edit	6	No			PRODUCTION	4/10/2024	4/19/2024			108	
Edit	7	No			1 Work Order Work Order #WO-1259 WO-1259 : PuriClean System WF150K	4/18/2024	4/19/2024	12	\$40.00	108	5,040.00
Edit	8	No			Operation OP10 Final Assembly	4/18/2024	4/19/2024	12	\$40.00	12	
Edit	9	No			2 Work Order Work Order #WO-1260 WO-1260 : UVF2020 UV Light Filter System	4/10/2024	4/18/2024	96	4,200.00	96	4,200.00
Edit	10	No			Operation OP10 Assembly	4/10/2024	4/12/2024	60	2,400.00	60	
Edit	11	No			Operation OP20 Test	4/16/2024	4/18/2024	36	1,800.00	36	
Edit	12	No			POST-PRODUCTION	4/22/2024	5/7/2024			64	
Edit	13	No			Schedule LTL Shipment	4/22/2024	4/23/2024			8	
Edit	14	No			Client Hand-Over Meeting	4/24/2024	4/25/2024			8	
Edit	15	No			On-Site Installation	4/26/2024	5/3/2024			40	
Edit	16	No			Project Close-Out Meeting	5/6/2024	5/7/2024			8	

Real-Time Material Costing Segmented by Project

Work Order visibility has been enhanced to group Work Orders by Project and to see all related Work Orders easily at a glance. This also allows for enhanced reporting enabling organizations to perform analytics on the entirety of manufacturing for a single Project.

Income Statement View Detail				
FINANCIAL ROW	- UNASSIGNED - Amount	STATE CENTER Amount	WACO WATER Amount	TOTAL Amount
Ordinary Income/Expense				
Cost Of Sales				
5010 - Cost of Goods Sold	\$875.00	\$0.00	\$0.00	\$875.00
5100 - Job Material WIP	\$866.66	\$75.00	\$150.00	\$1,091.66
5102 - WIP Variance	\$50.00	\$0.00	\$0.00	\$50.00
Total - Cost Of Sales	\$1,791.66	\$75.00	\$150.00	\$2,016.66
Gross Profit	(\$1,791.66)	(\$75.00)	(\$150.00)	(\$2,016.66)
Expense				
6220 - Repairs & Maintenance	\$199.00	\$0.00	\$0.00	\$199.00
6600 - Manufacturing Expenses				
6610 - Labor	(\$6,698.25)	(\$22.50)	\$0.00	(\$6,720.75)
6620 - Labor Burden	(\$1,635.89)	(\$2.50)	\$0.00	(\$1,638.39)
6630 - Machine	(\$9,455.00)	(\$50.00)	\$0.00	(\$9,505.00)
Total - 6600 - Manufacturing Expenses	(\$17,789.14)	(\$75.00)	\$0.00	(\$17,864.14)
Total - Expense	(\$17,590.14)	(\$75.00)	\$0.00	(\$17,665.14)
Net Ordinary Income	\$15,798.48	\$0.00	(\$150.00)	\$15,648.48
Net Income	\$15,798.48	\$0.00	(\$150.00)	\$15,648.48

Estimates to Actuals Visibility at the Work Order and Operation Level

Each task has a planned cost that is derived from the manufacturing routing and cost template. Actual production costs are recorded from production activity and alongside planned costs making identifying cost overruns a breeze.

Primary Information			
ID PWD-1763	WORK ORDER COMPLETION Work Order Completion #WCO-1304	OVERALL COMPLETED QUANTITY 1	<input checked="" type="checkbox"/> RECORD SETUP
NAME WCO-1304 : 10 Assemble	TRANSACTION DATE 3/19/2024	PLANNED QUANTITY 2	MANUFACTURING ROUTING RTG - Brakes Assembly - DOJ
DATE CREATED 3/19/2024 9:18 am	OPERATION SEQUENCE 10	ACTUAL COMPLETED QUANTITY 1	WORK ORDER Work Order #WO-1248
LAST MODIFIED 3/19/2024 9:26 am	OPERATION NAME Assemble	REMAINING QUANTITY 1	OPERATION TASK ID Assemble
PRODUCTION TASK PDT-1600 WO-1248 : Brakes Assembly - DOJ - 10 Assemble	WORK CENTER Hand Assembly		LOCATION 01: San Francisco
Rates			
LABOR RUN RATE 50.00	LABOR SETUP RATE 25.00	MACHINE RUN RATE 50.00	MACHINE SETUP RATE 25.00
Planned			
PLANNED LABOR RESOURCES 1	PLANNED LABOR RUN TIME 30	EXT PLANNED LABOR RUN TIME 30	PLANNED LABOR RUN COST 25.00
	PLANNED LABOR SETUP TIME 60	EXT PLANNED LABOR SETUP TIME 60	PLANNED LABOR SETUP COST 25.00
PLANNED MACHINE RESOURCES 2	PLANNED MACHINE RUN TIME 30	EXT PLANNED MACHINE RUN TIME 60	PLANNED MACHINE RUN COST 50.00
	PLANNED MACHINE SETUP TIME 60	EXT PLANNED MACHINE SETUP TIME 120	PLANNED MACHINE SETUP COST 50.00
			PLANNED OPERATION CONVERSION COST 150.00
Actual			
ACTUAL LABOR RESOURCES 1	ACTUAL LABOR RUNTIME 60	EXT ACTUAL LABOR RUN TIME 60	ACTUAL LABOR RUN COST 50.00
	ACTUAL LABOR SETUP TIME 60	EXT ACTUAL LABOR SETUP TIME 60	ACTUAL LABOR SETUP COST 25.00
ACTUAL MACHINE RESOURCES 2	ACTUAL MACHINE RUNTIME 30	EXT MACHINE RUN TIME 60	ACTUAL MACHINE RUN COST 50.00
	ACTUAL MACHINE SETUP TIME 60	EXT ACTUAL MACHINE SETUP TIME 120	ACTUAL MACHINE SETUP COST 50.00
			ACTUAL OPERATION CONVERSION COST 175.00



Establish Dependencies Between Project Tasks and Work Orders

Often, Project tasks depend upon the timing of manufacturing activities. The SuiteBundle adds the ability to establish those dependencies and have the Project Plan adjust in real time in response to changing conditions on the shop floor.

Project Task / Milestone

WO-1259 : PuriClean System WF150K

Save

Cancel

Customize Form

+

Actions

Primary Information

CUSTOM FORM *

CP | Mfg Project Task Form

NAME *

WO-1259 : PuriClean System WF150K

PROJECT NAME

Waco Water Authority : WF150 Deluxe Waco...

PARENT TASK

PRODUCTION

PRE-PRODUCTION

PRODUCTION

POST-PRODUCTION

STATUS *

In Progress

NON-BILLABLE

Project Task Overview

ESTIMATED WORK

108

ACTUAL WORK

0:00

PERCENT COMPLETE

0.0%

ESTIMATED WORK BASELINE

108

REMAINING WORK

108:00

SUMMARY ESTIMATED CONVERSION COST

5,040.00

Project Task Dates

CONSTRAINT TYPE

Fixed Start

FINISH NO LATER THAN

START DATE *

4/18/2024

END DATE

4/19/2024

START TIME

3:00 am

Manufacturing

MANUFACTURING TASK TYPE

Work Order

WORK ORDER

Work Order #WO-1259

BOM LEVEL

1

Notes

Assignees

Predecessors

Communication

Time Tracking

Custom

System Information

Box Files

TASK *

TYPE *

Finish-To-Start (FS)

LAG TIME

START DATE

3

CONTACT US

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CARAVEL

BPM Technology Solutions

Group Work Orders by Project

Work Order visibility has been enhanced to group Work Orders by Project and to see all related Work Orders easily at a glance. This also allows for enhanced reporting enabling organizations to perform analytics on the entirety of manufacturing for a single Project.

Work Order

WO-1259 Waco Water Authority

RELEASED

Edit

Back

Issue Components

Enter Completion

Enter Completion with Backflush

Close

Print BOM

Print Production Traveler

Actions

Primary Information

ORDER #
WO-1259

CUSTOMER
Waco Water Authority

PROJECT
WF150 Deluxe Waco...

ASSEMBLY
PuriClean System WF150K

BILL OF MATERIALS
BOM - WF150K

BILL OF MATERIALS REVISION
A

☒ WIP

MANUFACTURING ROUTING
RTG - WF150K

BOM LEVEL
1

BUILT
0

QUANTITY SCRAPPED
0

QUANTITY
1

UNITS
Each

DATE
3/20/2024

STATUS
Released

☒ FIRMED

MEMO

SCHEDULING METHOD
Backward

PRODUCTION START DATE
4/18/2024

PRODUCTION END DATE
4/19/2024

ACTUAL PRODUCTION START DATE

☐ ENTER MANUALLY

ACTUAL PRODUCTION END DATE

☐ ENTER MANUALLY

Classification

SUBSIDIARY
Honeycomb Mfg.

CLASS
Consumer Goods

LOCATION
01: San Francisco

ACTIVITY CODE

Items

Operations

Planned Time

Communication

Related Records

MPSA - WO Tree

MPSA - PT

MPSA - PWD

Custom

System Information

SuiteSocial

Box Files

WO Tree

WORK ORDER	BOM LEVEL	ITEM	QUANTITY	STATUS	START DATE	END DATE
WO-1259	1	PuriClean System WF150K	1	Released	4/18/2024	4/19/2024
WO-1260	_2	UVF2020 UV Light Filter System	2	Released	4/10/2024	4/18/2024

Manufacturing Status Reflected On Project Plan in Real-Time

See the complete Project Plan at a glance including those dependent manufacturing activities.

ID	TASKS	START	END
1	PRE-PRODUCTION	3/27/2024	4/3/2024
2	Assign Project Engineers	3/27/2024	3/27/2024
3	Kick-Off Meeting	3/28/2024	3/29/2024
4	Engineering Submittal	4/1/2024	4/1/2024
5	Engineering Design Review	4/3/2024	4/3/2024
6	PRODUCTION	4/10/2024	4/19/2024
7	WO-1259 : PuriClean System WF15...	4/10/2024	4/19/2024
8	OP10 Final Assembly	4/18/2024	4/19/2024
9	WO-1260 : UVF2020 UV Light Fil...	4/10/2024	4/18/2024
10	OP10 Assemble	4/10/2024	4/12/2024
11	OP20 Test	4/16/2024	4/18/2024
12	POST-PRODUCTION	4/22/2024	5/7/2024
13	Schedule LTL Shipment	4/22/2024	4/23/2024
14	Client Hand-Over Meeting	4/24/2024	4/25/2024
15	On-Site Installation	4/26/2024	5/3/2024
16	Project Close-Out Meeting	5/6/2024	5/7/2024

Honest to a Fault

The consulting industry is plagued with firms willing to take advantage of a customer's inexperience around budget, deployment timeline, and software knowledge. At Caravel, we are upfront and honest about everything. The reality is that implementing enterprise business applications (if done right) takes time and money. Caravel would rather forfeit jobs to other firms promising cheaper pricing and unrealistic timelines than cut corners and costs at the detriment of the customer. Our goal is to meet customer expectations on Day 1 by finding the best fit for an implementation, helping to set customers up for success from the start.



FULL-SERVICE FIRM.



EXPERTISE.



TEAM.



About Caravel

Caravel has served more than 500 clients over the past decade, providing a comprehensive range of services, including accounting, strategy, business processes and technology selection. Our commitment to excellence drives us to continually improve and refine our approach, helping our clients solve complex problems with modern tools.

Caravel is proud to be a part of the technology services group of BPM LLP, a top 40 accounting and advisory firm. With our team by your side, you can unlock your business's true potential and drive success in an ever-evolving marketplace.

CONTACT US

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