

Manufacturing Workflow(Routing)

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Introduction

Introduction

Overview

1. Manufacturing Workflows (Routing) is a set of information detailing the method of manufacture of a particular item .It includes the operations to be performed their sequence the various work centers to be involved and the standards for setup and run.
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Business Case

1. In some companies routing also includes information on tooling operator skill levels inspection operations testing requirements etc.
2. In this work flow we can mention the work flow type and the resources also.

Tab

Manufacturing Routing

KONECT ANALYTICS work Prasanth P@Kconnect Demo*/Kconnect Demo Admin

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Manufacturing Routing [1/1]

Data required

Workflow Type: Manufacturing

Resource:

Qty Per Batch: 1

Valid from:

Publication Status: Released

Document No: 1000120

Author: Sivakumar M

Process Type:

Priority: 0

Valid to:

Version: 0

General

Start Node: ASSEMBLY

Simulation

Cost: 50.00

Overlap Units: 0.0

Queuing Time: 0

Duration: 25

Duration Limit: 25

Waiting Time: 0

Working Time: 25

Setup Time: 0

Duration Unit: Minute

Yield %: 100

Moving Time: 0

☒ Valid

Critical Fields

1. Name : Used to create the workflow name.
2. Workflow Type : Used to select the flow type.(Ex : Document Process,Document Value,General,Manufacturing,Quality,Wizard).
3. Duration Unit : Used to select the Unit to define the length of time for the execution. (Ex : Day,Hour,Minute,Month,Second,Year)
4. Start Node : The Workflow Node indicates a unique step or process in a Workflow.(It is visible only when we create the operations)

Critical & onetime setup fields

1. Organization Field- This Field is used to select the organization which you are going to process the document.

Non-Critical Fields

1. Resource : Here It is used to mention the Plant.(Ex : Assembly ,Refer Resource Master)
 2. Qty Per Patch : It is used to mention the No of Qty processed in one Batch
 3. Valid From : The Valid From date indicates the first day of a date range
 4. Publication Status : Used for internal documentation
 5. Document No : The document number is usually automatically generated by the system and determined by the document type of the document. If the document is not saved, the preliminary number is displayed in "<>".
 6. Author : It shows the workflow creator name.
 7. Cost : It is used to give cost information's
 8. Overlap Units : Overlap Units are number of units that must be completed before they are moved the next activity
 9. Queuing Time : Queue time is the time a job waits at a work center before begin handled.
 10. Duration : Used to give Expected (normal) Length of time for the execution
 11. Duration Limit : Maximum (critical) Duration for time management purposes (e.g. starting an escalation procedure, etc.) in Duration Units.
 12. Waiting Time : It is used to give Amount of time needed to prepare the performance of the task on Duration Units
 13. Moving Time : It is used to give amount of of time needed to move from one operation to another operation.
 14. Yield % : The Yield is the percentage of a lot that is expected to be of acceptable quality may fall below 100 percent
 15. Setup Time : Used to give Setup time before starting Production
 16. Working Time : Used to give Amount of time the performer of the activity needs to perform the task in Duration Unit
 17. Version : The Version indicates the version of this table definition.
 18. Valid To : The Valid To date indicates the last day of a date range
 19. Priority : The Priority indicates the importance of this request.
 20. Default : The Default Checkbox indicates if this record will be used as a default value.
 21. Process Type : Used to select the process type from the list.(Ex : Batch Flow,Continuous Flow,Dedicate repetitive Flow,Job Shop,Mixed Repetitive Flow,Plant.)
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Zoom condition's

1. We can zoom and find the Manufacturing orders creation by using this workflow.

Customization

Tab

Operations

The screenshot shows the 'Manufacturing Workflows(Routing)' form in the KONECT ANALYTICS application. The form is titled 'ASSEMBLY' and is part of the 'Manufacturing Discrete' organization. It includes fields for Search Key, Sequence, Operation name, Description, Comment/Help, Resource (Lathe), Active checkbox, Is Milestone checkbox, Is Subcontracting checkbox, Valid from, Valid to, Priority, Join Element (XOR), Split Element (XOR), Working Time, and Wait Time. The form is displayed in a browser window with a navigation bar and a sidebar.

Critical Fields

1. Operation Name : It is used to mention the name of the operation.
2. Resource : It is used to Select the manufacturing work center (previously defined) where you want to execute the operation. For the product costing, the Resource rate is taken from the cost element introduced in the window Product Costing (Refer resource master).

Critical & onetime setup fields

Non-Critical Fields

1. IsQc : This operation is under quality check when we select this check box.
2. Quality Plan : We should give the quality plan when we select the IsQc check box.(Refer

Quality plan master)

3. IsSubcontracting : When we select this check box this operation is used for the subcontracting process.
 4. Business Partner : We should mention the Business partner name when we select the IsSubcontracting check box.(Refer Business Partner Master)
 5. IsMilestone :
 6. Valid From : The Valid From date indicates the first day of a date range.
 7. Join Element : It used to mention the Semantics for multiple incoming Transitions for a Node/Activity. AND joins all concurrent threads - XOR requires one thread (no synchronization).
 8. Working Time : Used to give Amount of time the performer of the activity needs to perform the task in Duration Unit
 9. Wait Time : It is used to mention Time in minutes to be suspended (sleep)
 10. Cost : It is used to give cost information's
 11. Overlap Units : Overlap Units are number of units that must be completed before they are moved the next activity
 12. Queuing Time : Queue time is the time a job waits at a work center before begin handled.
 13. Duration : Used to give Expected (normal) Length of time for the execution
 14. Duration Limit : Maximum (critical) Duration for time management purposes (e.g. starting an escalation procedure, etc.) in Duration Units.
 15. Waiting Time : It is used to give Amount of time needed to prepare the performance of the task on Duration Units
 16. Moving Time : It is used to give amount of of time needed to move from one operation to another operation.
 17. Yield % : The Yield is the percentage of a lot that is expected to be of acceptable quality may fall below 100 percent
 18. Setup Time : Used to give Setup time before starting Production
 19. Split Element : It is used to mention the Semantics for multiple outgoing Transitions for a Node/Activity. AND represents multiple concurrent threads - XOR represents the first transition with a true Transition condition.
 20. Valid To : The Valid To date indicates the last day of a date range
 21. Priority : The Priority indicates the importance of this request.
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Zoom condition's

Validation

Tab

Product

The screenshot shows the KONECT ANALYTICS web application interface. The top navigation bar includes the logo, a search bar, and user information (Prasanth P@Konnect Demo*/Konnect Demo Admin). The left sidebar has 'Favourites' and 'Recent Items' sections. The main content area is titled 'Manufacturing Workflows(Rou...)' and contains a 'Product' tab. The form fields are as follows:

Field	Value
Client	Konnect Demo
Organization	[Dropdown]
Node	ASSEMBLY
Sequence	10
Product	Copper (Cu)_Copper (Cu)
Quantity	1
Is Subcontracting	<input checked="" type="checkbox"/>

We should fill this tab only when we select the operation is subcontract.

Critical Fields

1. Product : We should select the subcontracting product from the product master.
2. Quantity : The Quantity indicates the number of a specific product or item for this document.

Critical & onetime setup fields

Non-Critical Fields

1. Sequence : The Sequence indicates the order of records

Zoom condition's

Validation

Tab

Tools

The screenshot shows the Konnect Analytics web application interface. The top navigation bar includes the logo, a search bar, and user information (Prasanth P@Konnect Demo, Konnect Demo Admin). The left sidebar has 'Favourites' and 'Recent Items' sections. The main content area is titled 'Manufacturing Workflows(Routing)' and shows a 'Record saved' message. The form contains the following fields:

Field	Value
Client	Konnect Demo
Node	ASSEMBLY
Active	<input checked="" type="checkbox"/>
Sequence	0
Organization	Manufacturing Discrete
Asset	1000591_Measuring Tape

Critical Fields

1. Asset : We should select the asset which is used for this operation.(Refer Asset Master),
An asset is either created by purchasing or by delivering a product. An asset can be used internally or be a customer asset.

Critical & onetime setup fields

Non-Critical Fields

1. Sequence : The Sequence indicates the order of records

Zoom condition's

Validation

Tab

Next Operation

The screenshot shows the 'Next Operation' form in the KONNECT ANALYTICS application. The interface includes a top navigation bar with the logo, a search bar, and user information. A sidebar on the left contains 'Favourites' and 'Recent Items' sections. The main content area has a breadcrumb trail: 'Manufacturing Routing > Operations > Next Operation'. Below this, a 'Data requested' section contains several input fields: 'Client' (text box with 'Konnect Demo'), 'Organization' (dropdown menu), 'Node' (text box with 'ASSEMBLY'), 'Next Node' (dropdown menu with 'Checking'), 'Sequence' (text box with '10'), and 'Description' (text box). There is also a checkbox labeled 'Active' which is checked.

Critical Fields

1. Next Node : Here we can select the next node of the operation from the operation sub tab,
The Next Node indicates the next step or task in this Workflow.

Critical & onetime setup fields

Non-Critical Fields

1. Sequence : The Sequence indicates the order of records

Zoom condition's

Validation

Validations

Validations

Save


1. It is used to save the records after the mandatory fields are filled.

Delete

1. It is used to delete the records.(Cannot delete the records after the transactions are done)

Process

Order Process



Manufacturing Routing

Workflow copy from

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Client

Konnect Demo

Organization

Manufacturing Discrete

Search Key

001859N63-01

☐

isShopFloorView

Name

001859N63-01

Description

Comment/Help

☒ Active

☒ Default

Workflow Type

Manufacturing

Process Type

Continuous Flow

Resource

Discrete - Plant

Qty Per Batch

1

Priority

0

Valid from

18/04/2023

Valid to

1. Workflow Copy from: This process will help you to copy the Workflow from the workflow routing master

Process

Operation process

Not applicable

Video

Video

Routing creation video