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Maintenance of Routing in SAP Public Cloud

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HOW TO CREATE, CHANGE, DISPLAY ROUTING IN SAP PP PUBLIC CLOUD

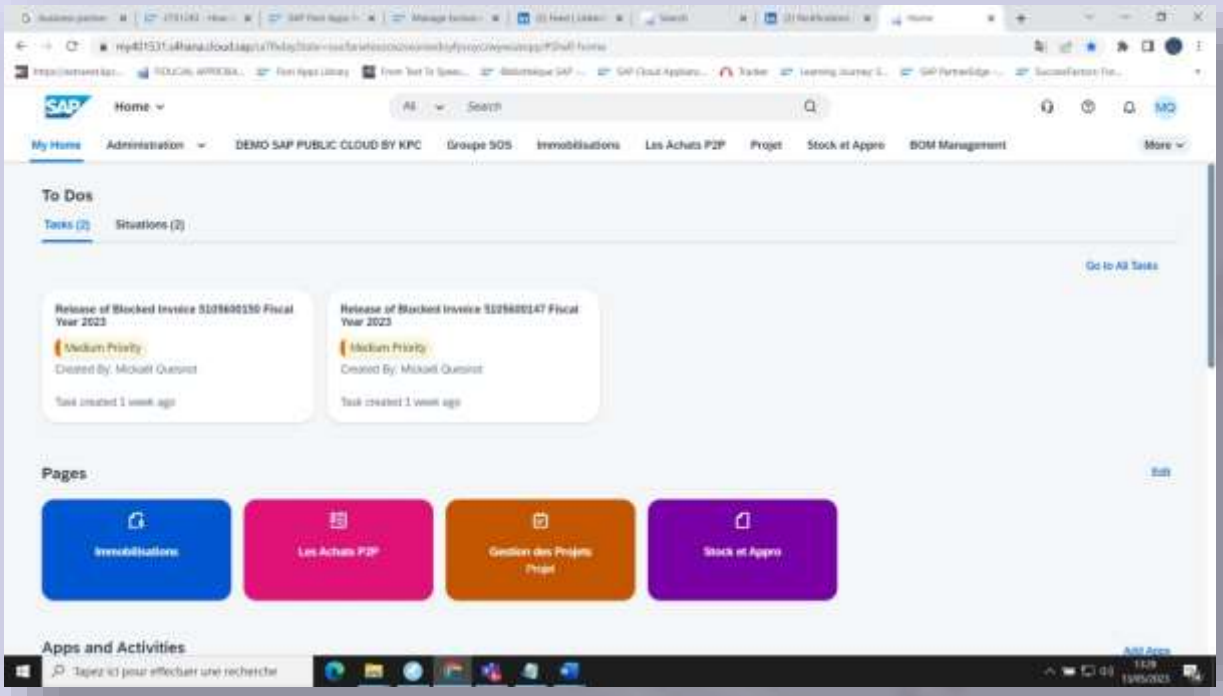
A routing is a description of which operations or list of activities must be carried out during the production and planning process.

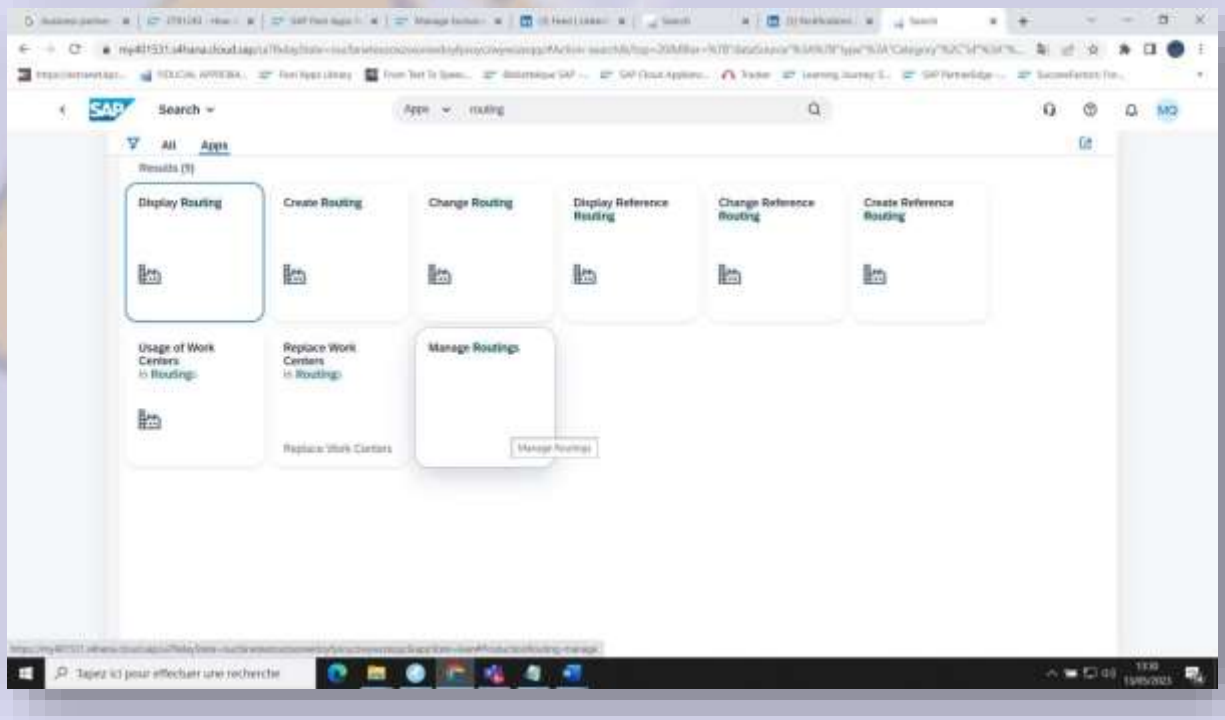
It also tells what order or sequence the activities/operations needs to be carried out at work centers or machines.

- There may be several alternative routings for a product. For example, product can be manufactured on 2 manually operated machines (drilling and grinding) and simultaneously manufactured on 1 automatic machine (which has both drilling and grinding functions). In this case, Material has 2 alternative routings viz, automatic machine and manual operated machine.
- Multiple materials can follow same routing group which means a group of materials can have single routing.
- Routing is used in Production for scheduling and costing of operations for finished and semi-finished materials.
- Routings are also used in standard cost calculation for finished Product by calculating operational cost of finished product.
- Before creating the routing, it is recommended that Work Centre should be available in the system.

In this tutorial - you will learn

- How to Create Routing
- How to Change Routing
- How to Display Routing

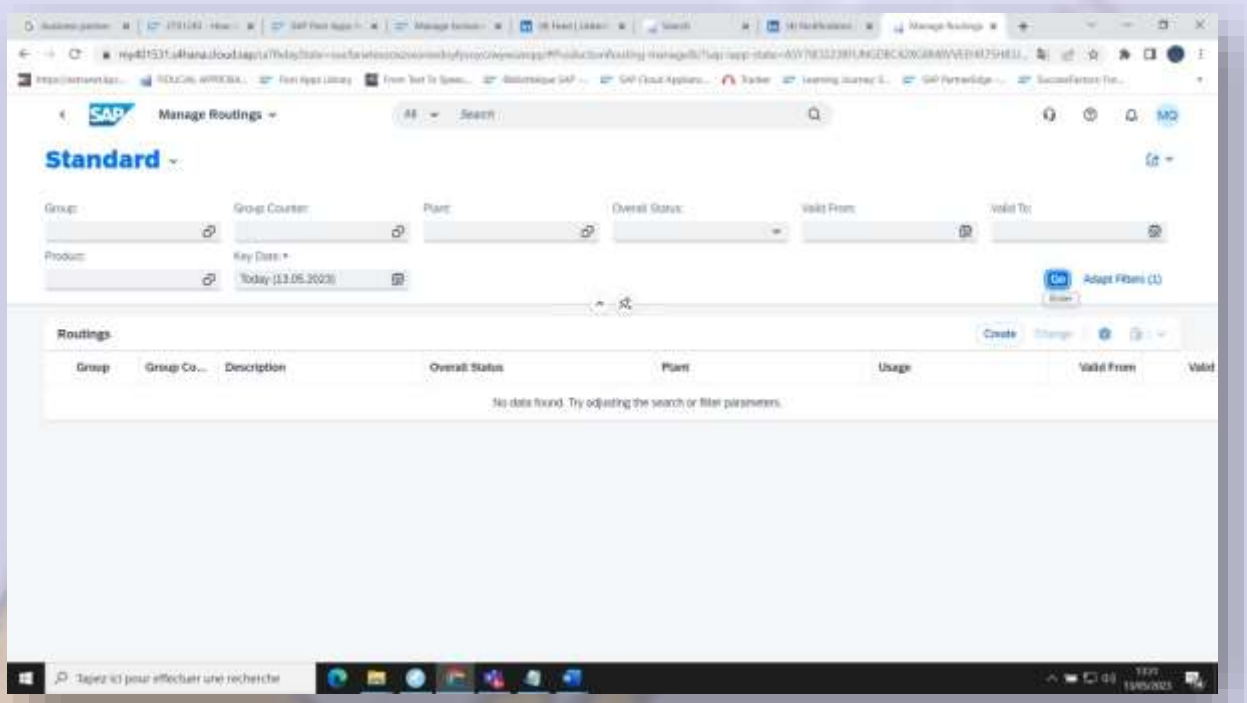


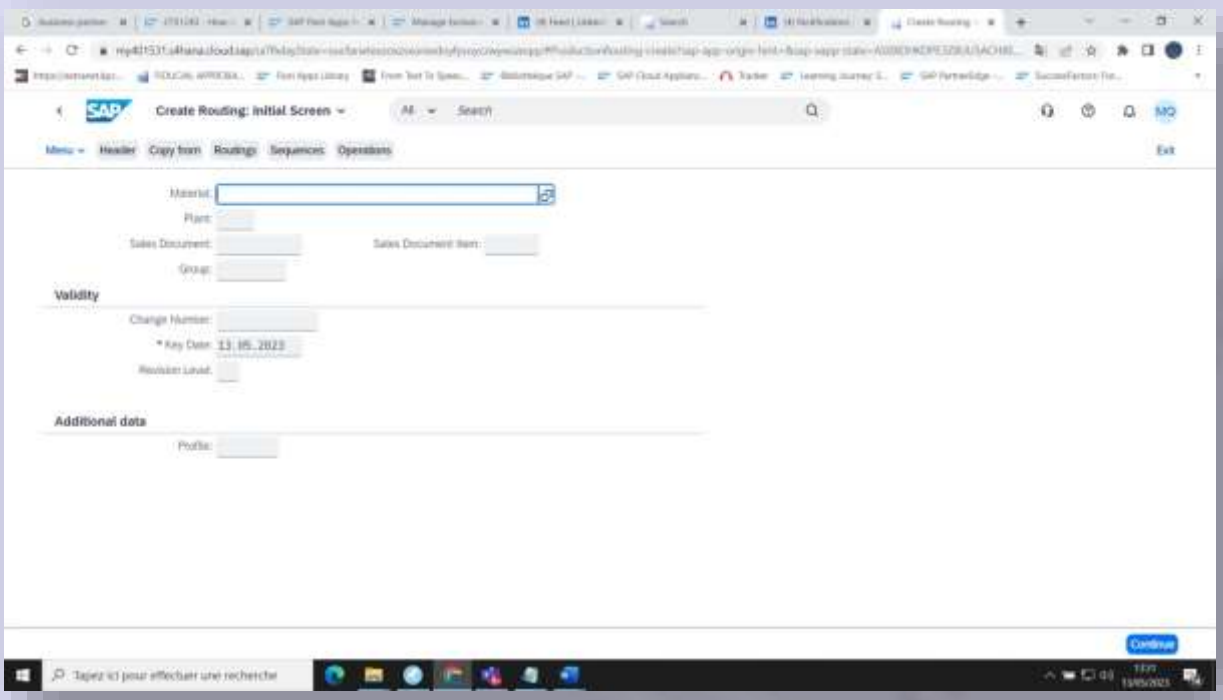


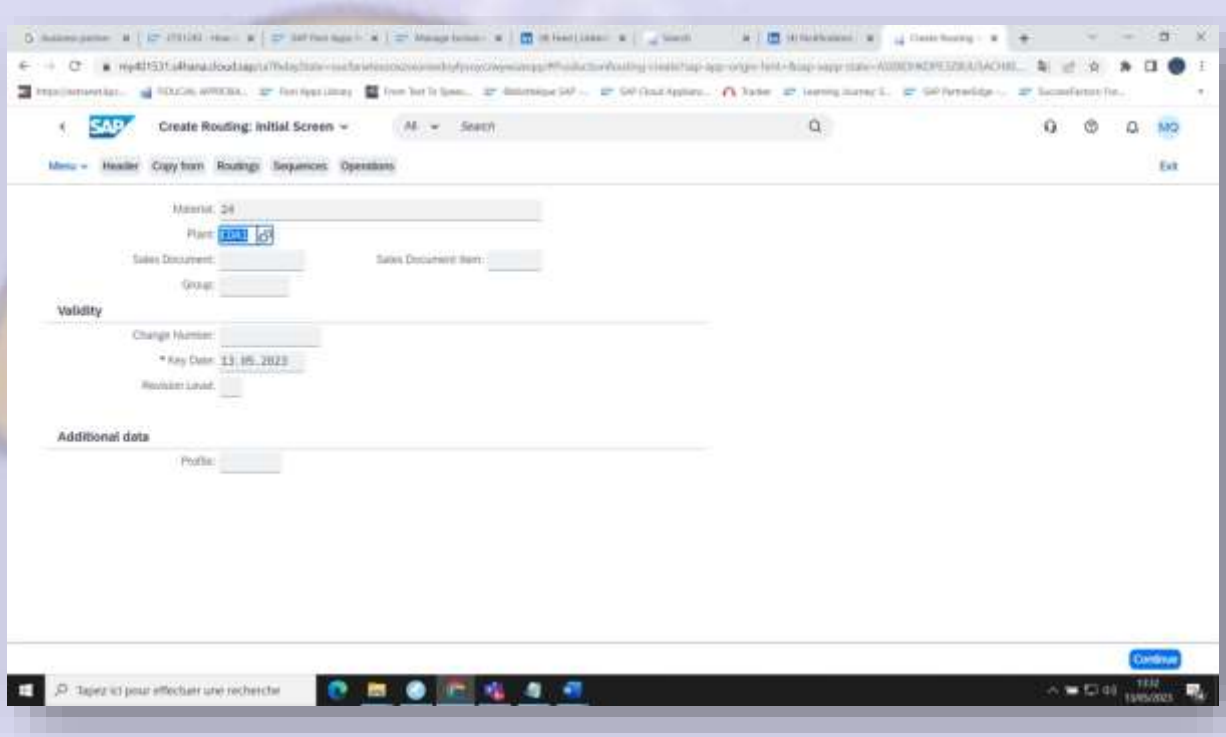
How to Create Routing

STEP 1) OPEN APP MANAGE ROUTINGS

1. Enter parent material for which routing needs to be created.
2. Enter Plant Code.
3. Enter the Key date (valid from date) which means that routing would be valid from that date.







After filling in all the fields, click or press Enter to go to the next screen. "Header Details"

Step 2) In this step, we will maintain routing header data as given below.

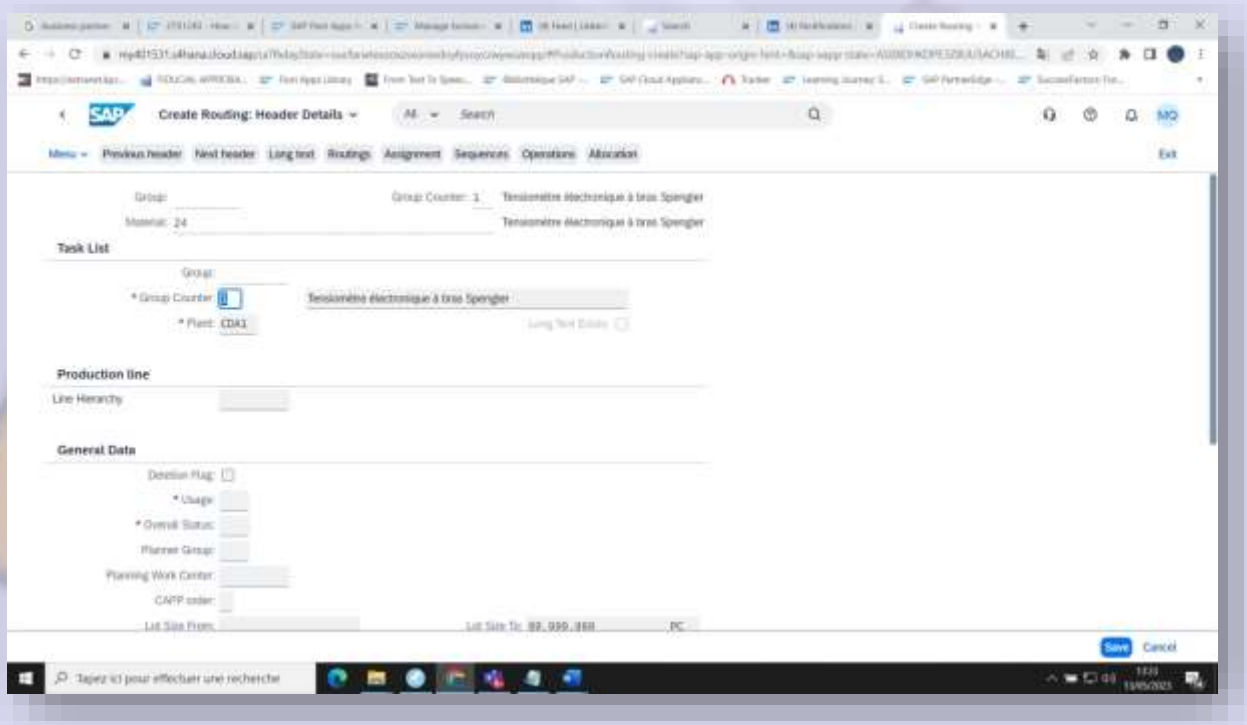
1. Enter Usage as "1" which is meant for Production routing and will be used in Production Order. There are other task list usages which are meant for Plant maintenance and inspection plan.

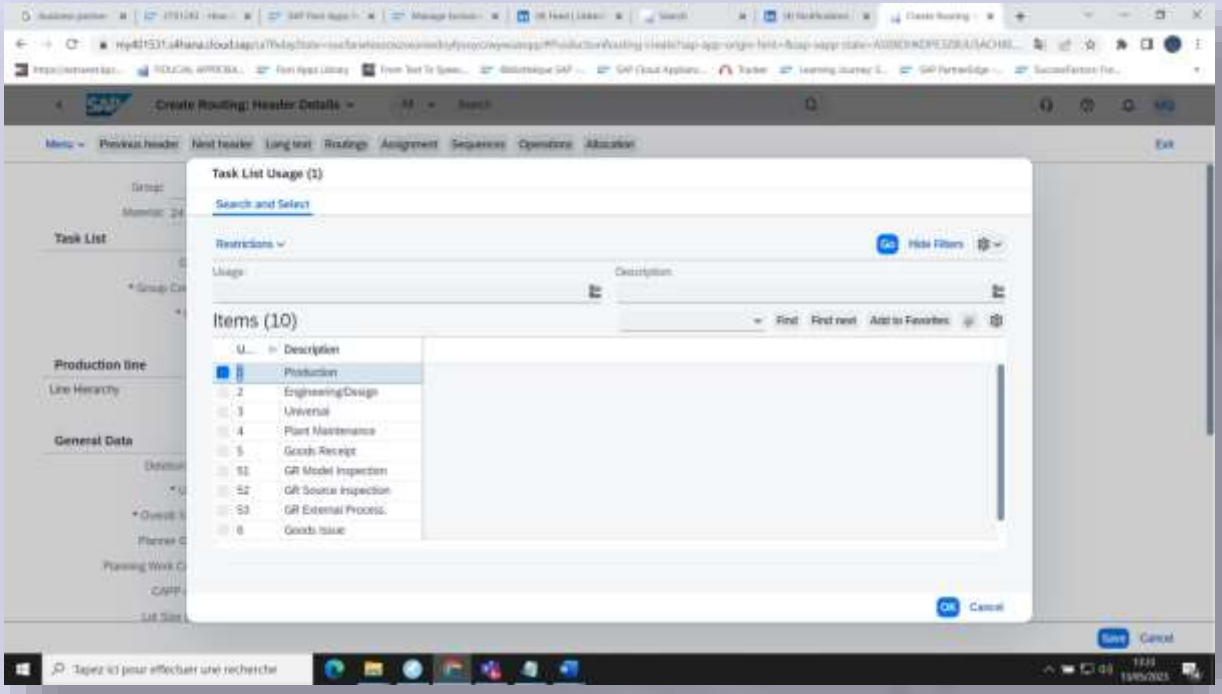
2. Enter Status as "4" which is a released status. It indicates that routing is valid for material requirement planning and costing.

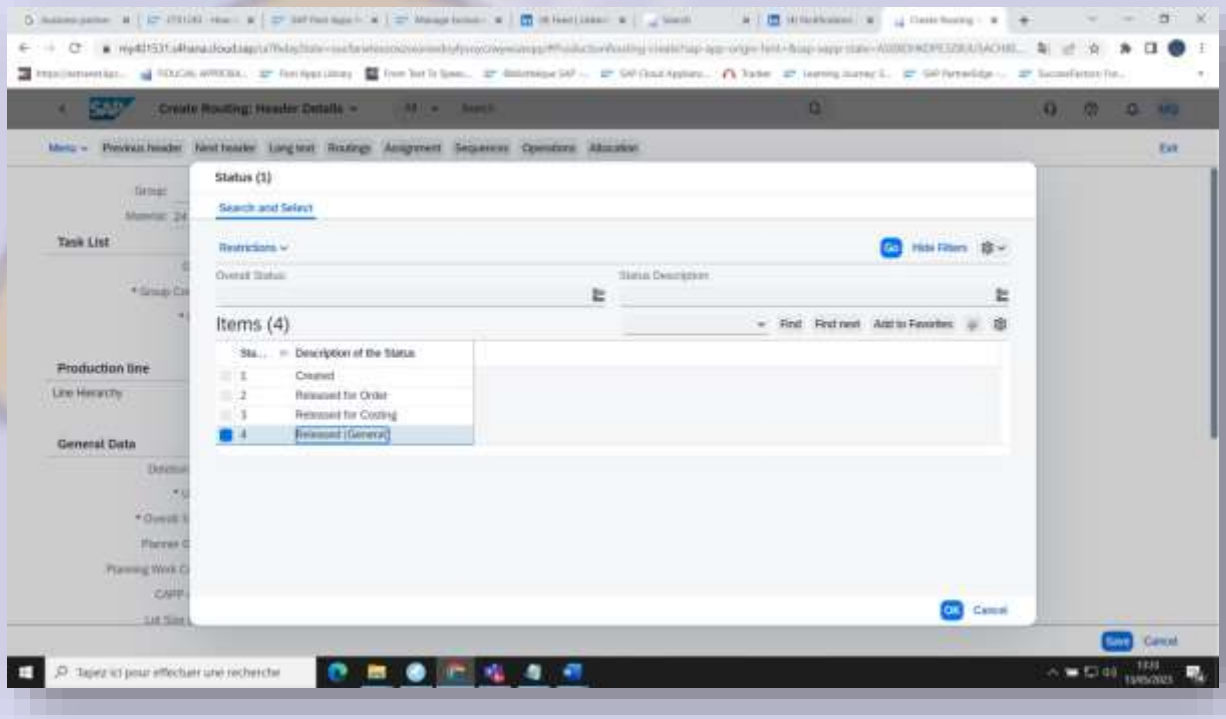
3. Enter Lot Size as "99999999" which means that routing is valid for order quantity between 0 and 99999999.

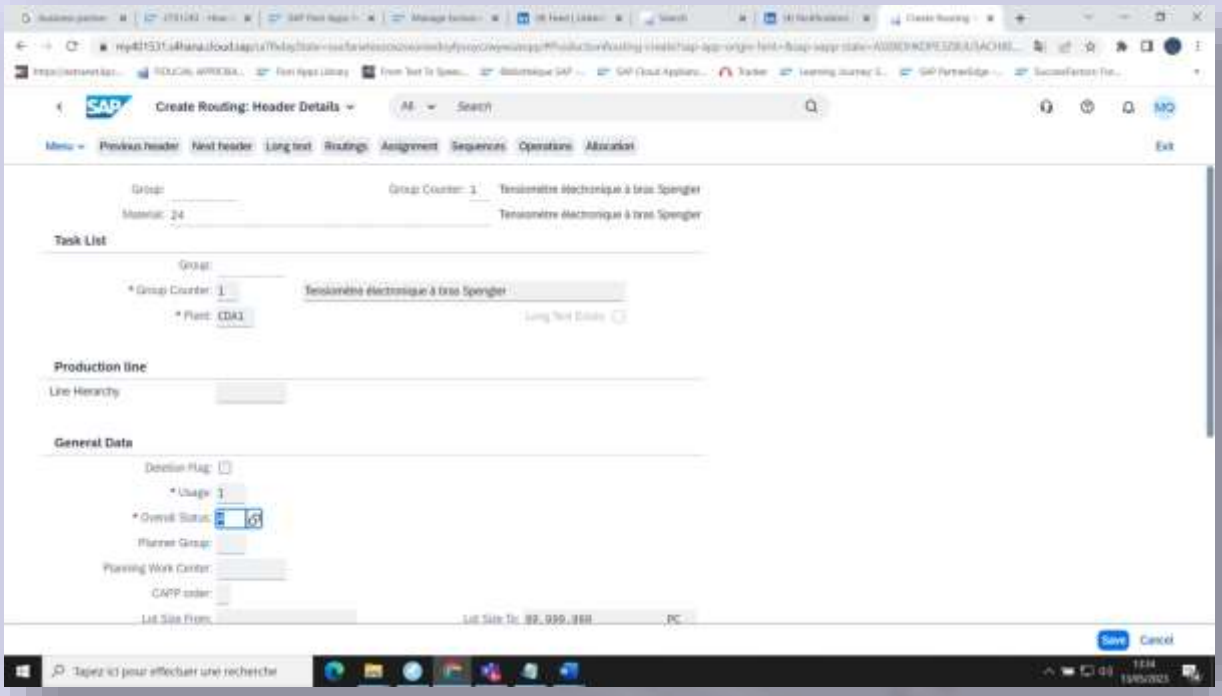
4. Press Operation button to add the sequence of operation and follow next step 3.

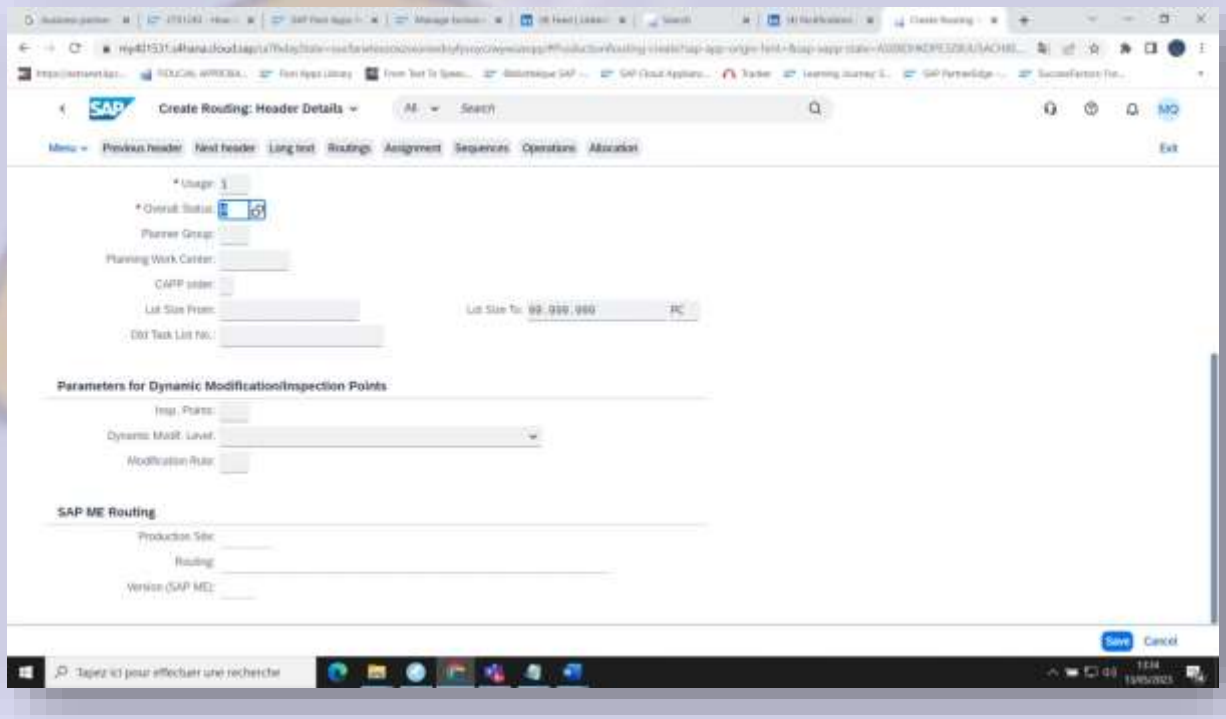
Some information such as Description, Group Counter and Basic Unit Measure will be populated by system automatically.



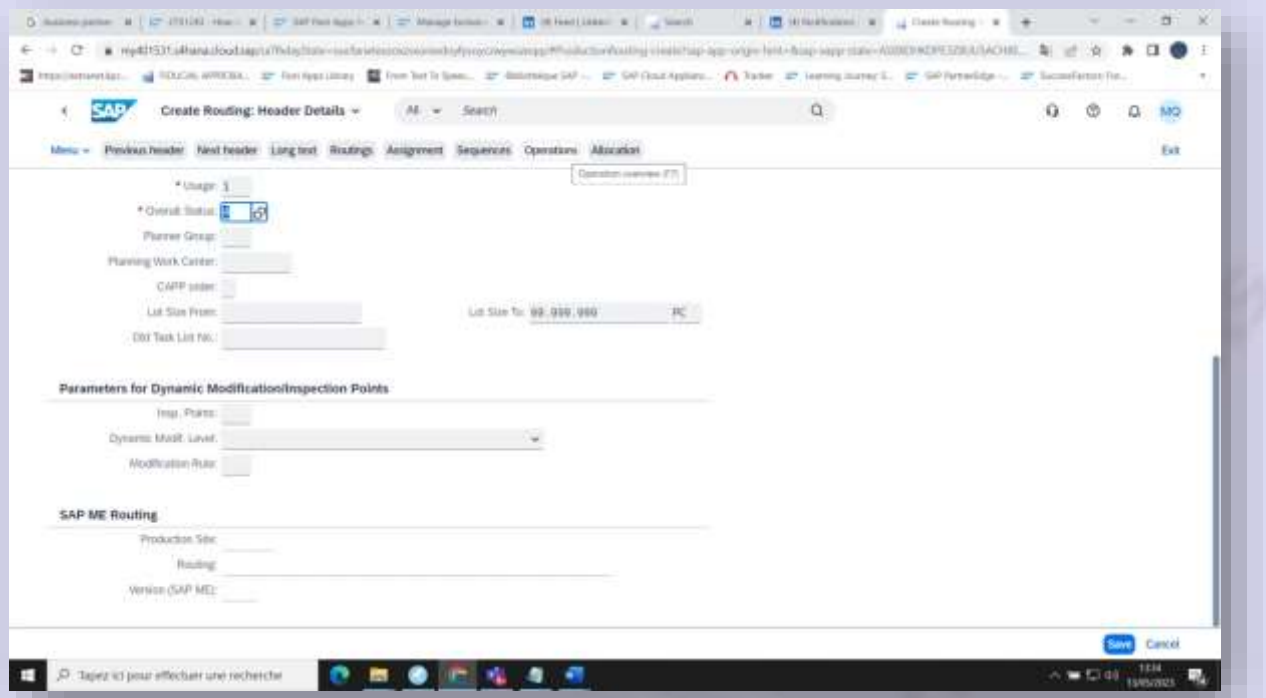

Create Routing: Header Details
Task List Usage (1)
Search and Select
Items (10)
Description
Production
Engineering/Design
Universal
Plant Maintenance
Goods Receipt
GR Model Inspection
GR Source Inspection
GR External Process
Goods Issue
Task List
Production line
General Data


Create Routing: Header Details
Status (1)
Search and Select
Items (4)
Description of the Status
Created
Released for Order
Released for Costing
Released (General)
Task List
Production line
General Data





Click Operation tab and it will open "Operation Overview" screen.



Step 3) In this step, we will maintain operation data.

1. Enter Work Center code at which operation is carried out.

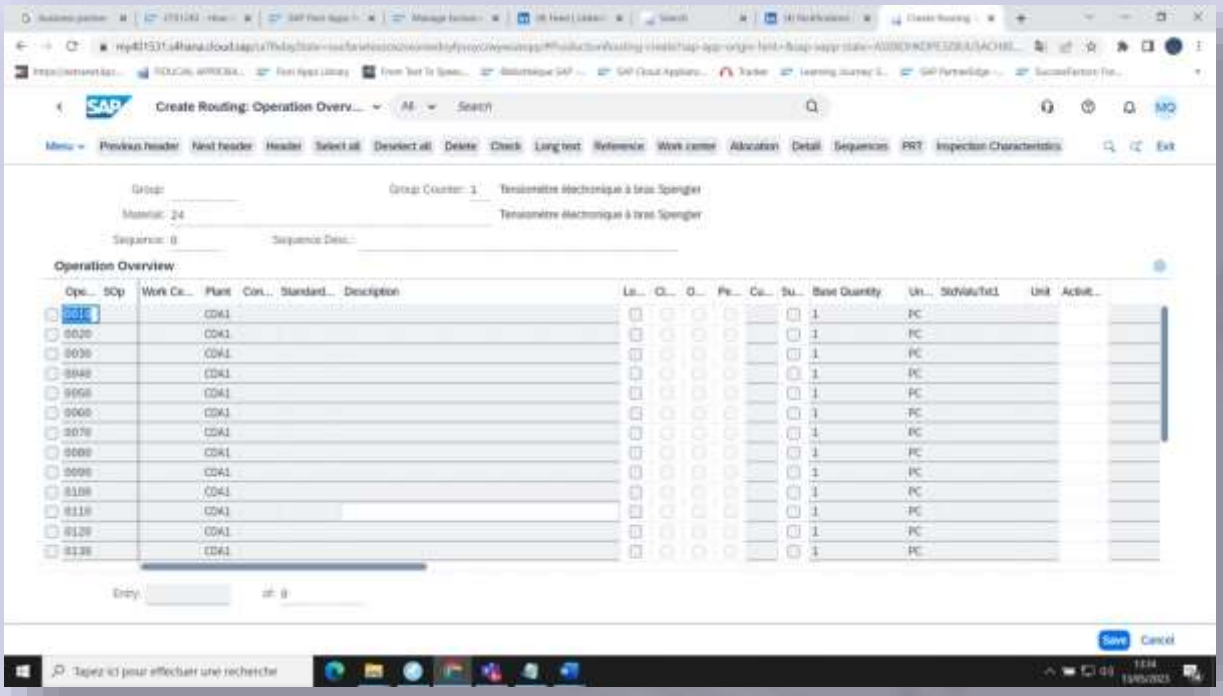
2. Input Control Key which determines whether operation should be scheduled, costed and if auto goods receipt is possible while doing production confirmation. It is generally configured depends upon your business process.

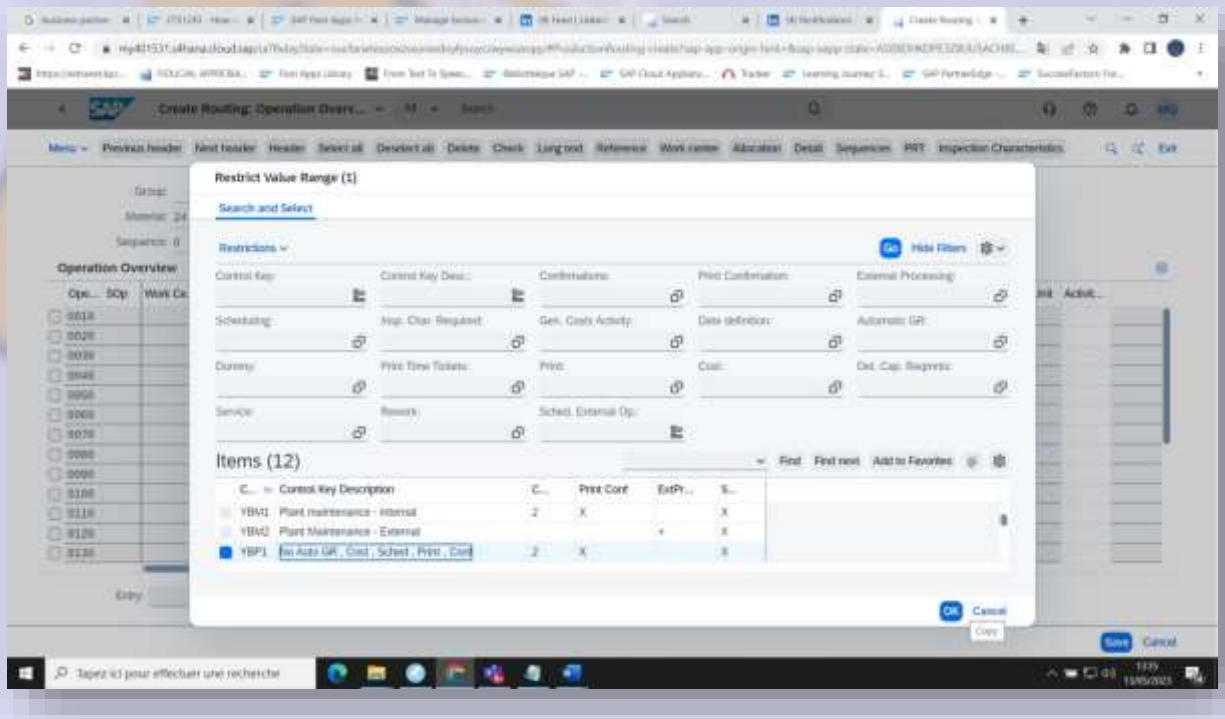
3. Input the operation description.

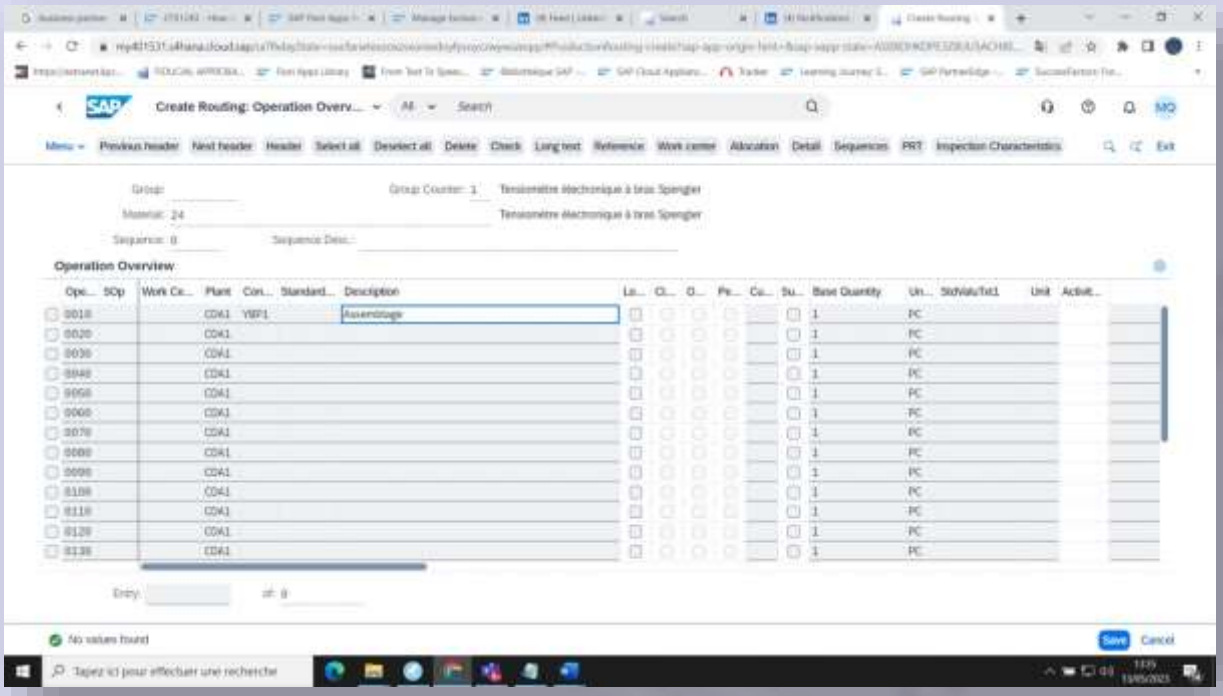
4. Input the base quantity or output quantity of the material which indicates how much quantity of material would be produced in machine and labor time mentioned at point no.
   5 & 6.

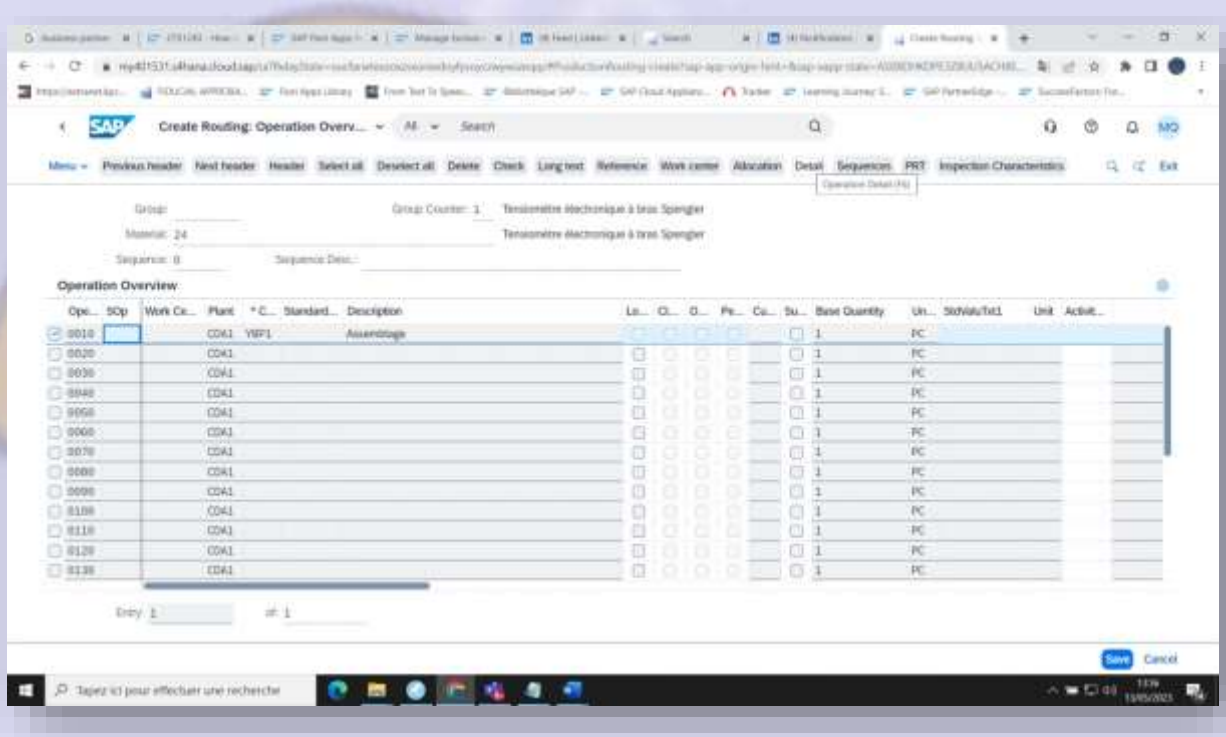
5. Enter set up time in minutes required for the base quantity.

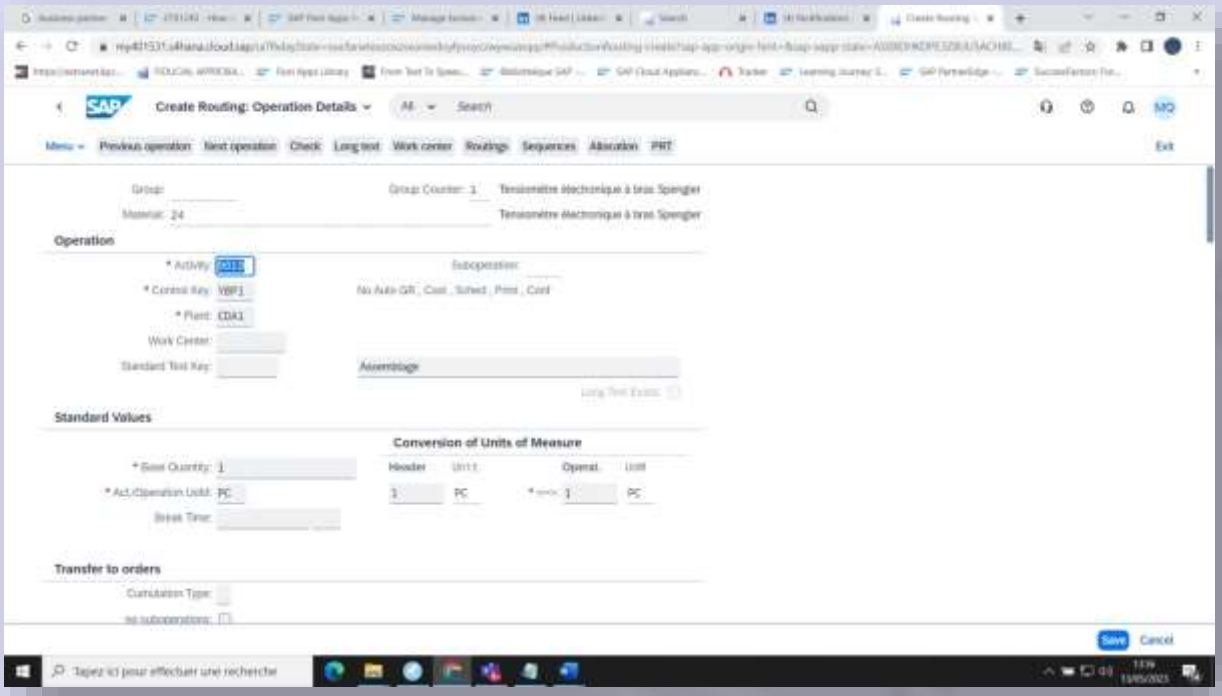
6. Enter Machine time in minutes required for the base quantity.

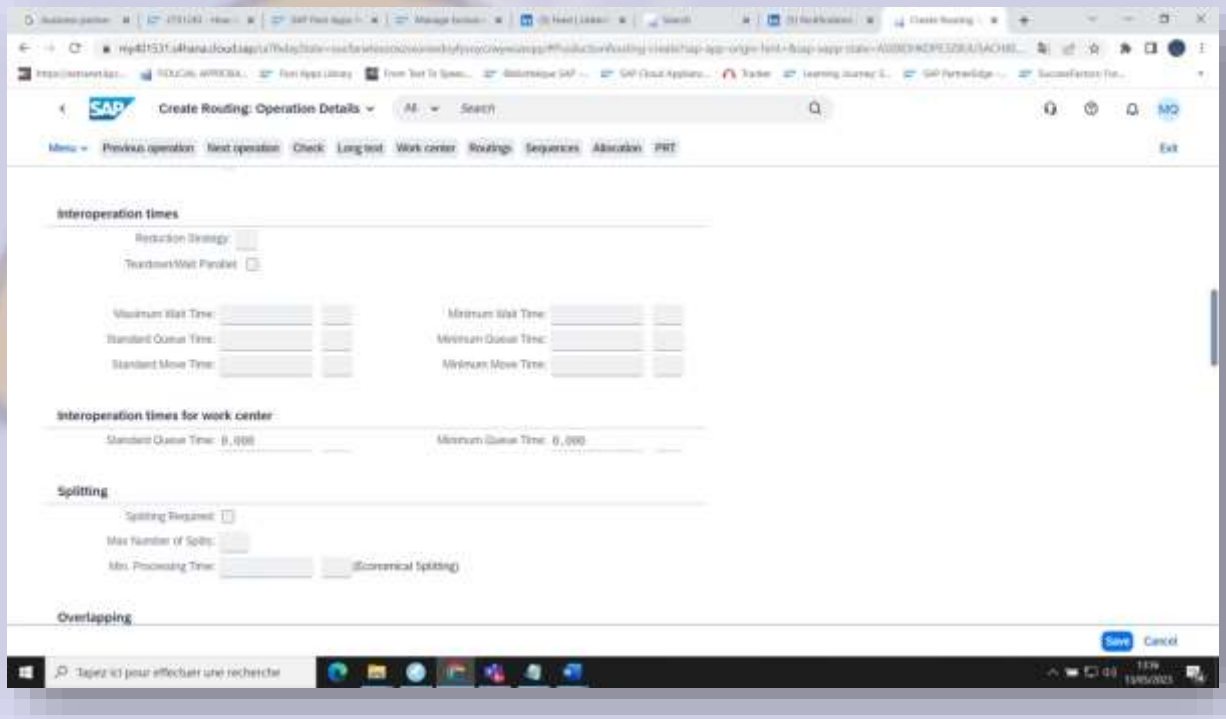

Create Routing: Operation Overv...
Operation Overview
Save
Cancel

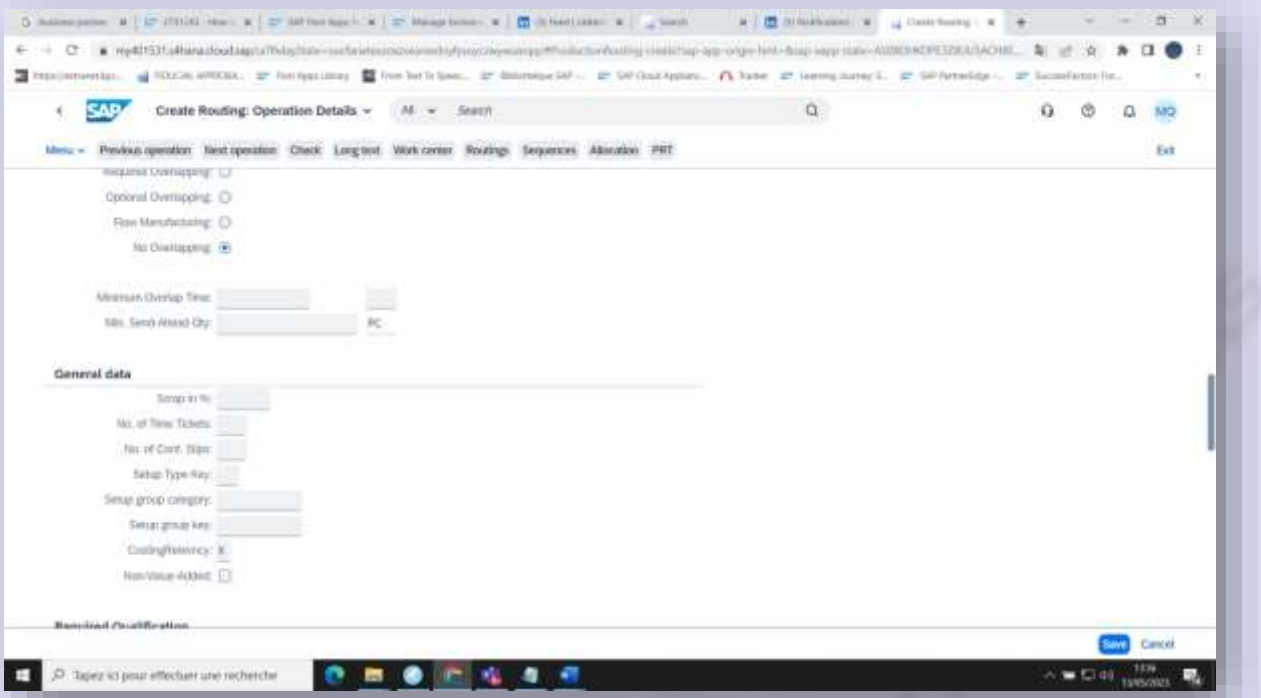

Restrict Value Range (1)
Search and Select
Restrictions
Items (12)
Control Key Description
YBV1 Plant maintenance - internal
YBV2 Plant Maintenance - External
YBP1 Bin Auto GR , Cost , Sched , Print , Cost
OK
Cancel


Create Routing: Operation Overv...
Operation Overview
Save
Cancel

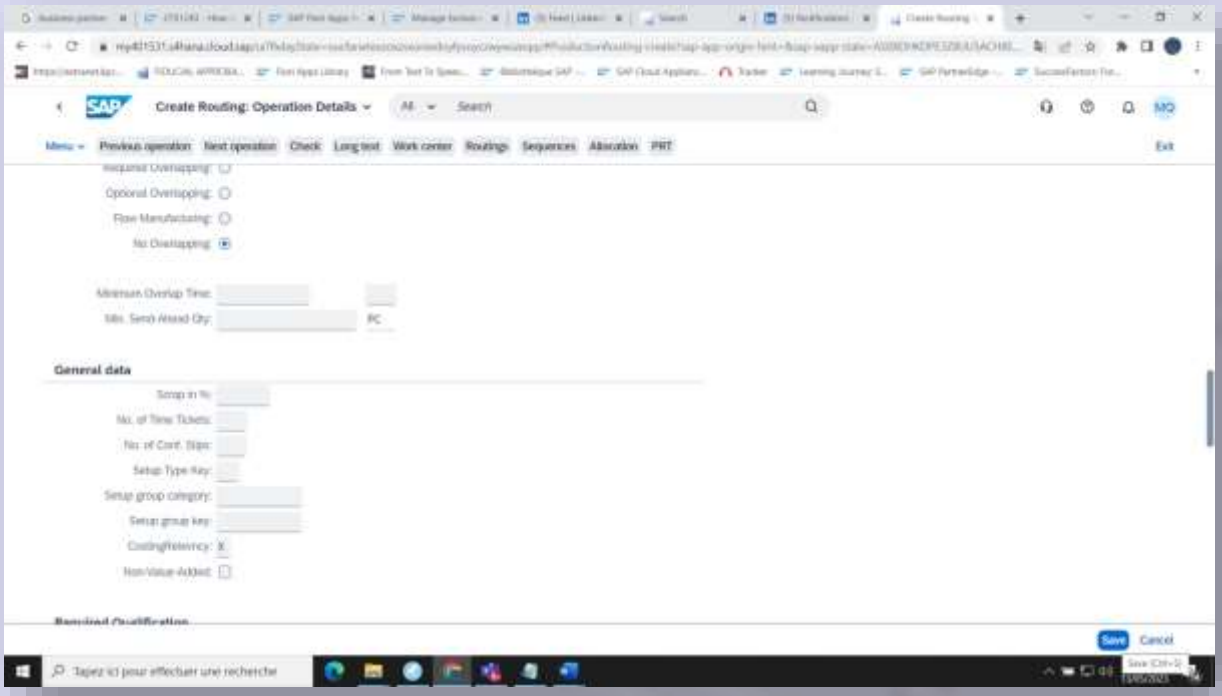

Create Routing: Operation Overv...
Operation Overview
Save
Cancel

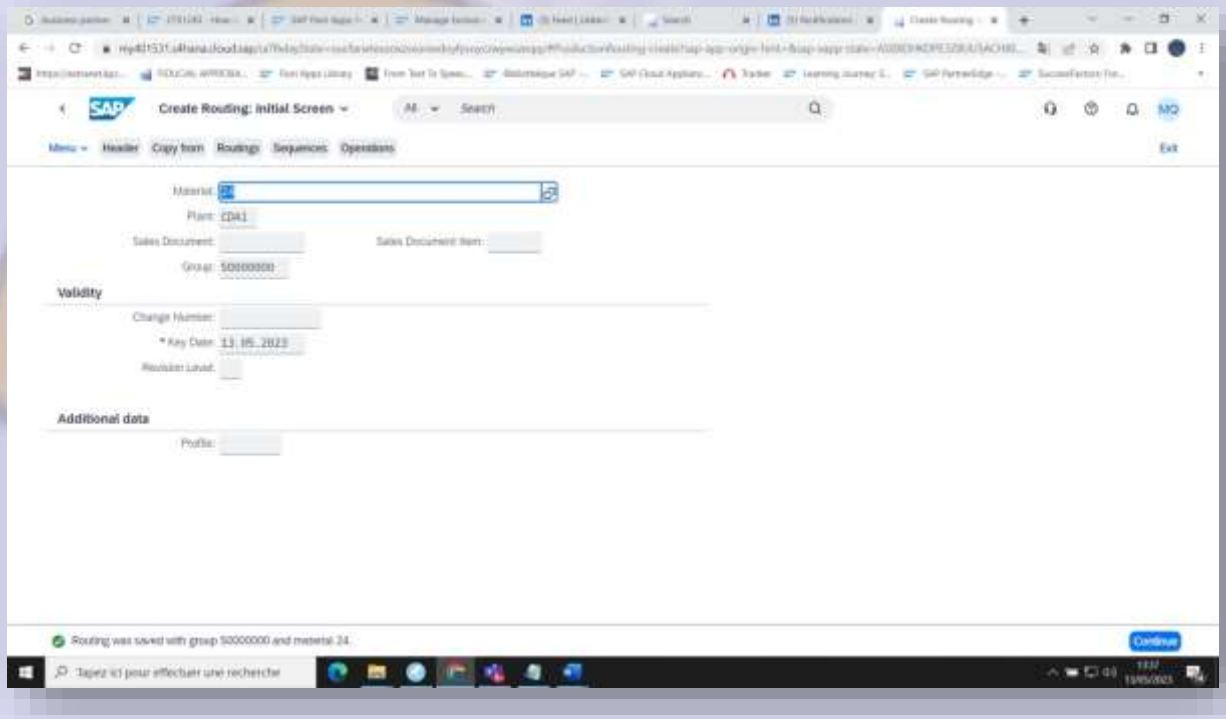

Create Routing: Operation Details
Previous operation
Next operation
Check
Long text
Work center
Routings
Sequences
Allocation
PRT
Exit
Operation
Standard Values
Conversion of Units of Measure
Transfer to orders
Save
Cancel


Create Routing: Operation Details
Previous operation
Next operation
Check
Long text
Work center
Routings
Sequences
Allocation
PRT
Exit
Interoperation times
Interoperation times for work center
Splitting
Overlapping
Save
Cancel



Click to save the new routing, system will show message





How to Change Routing

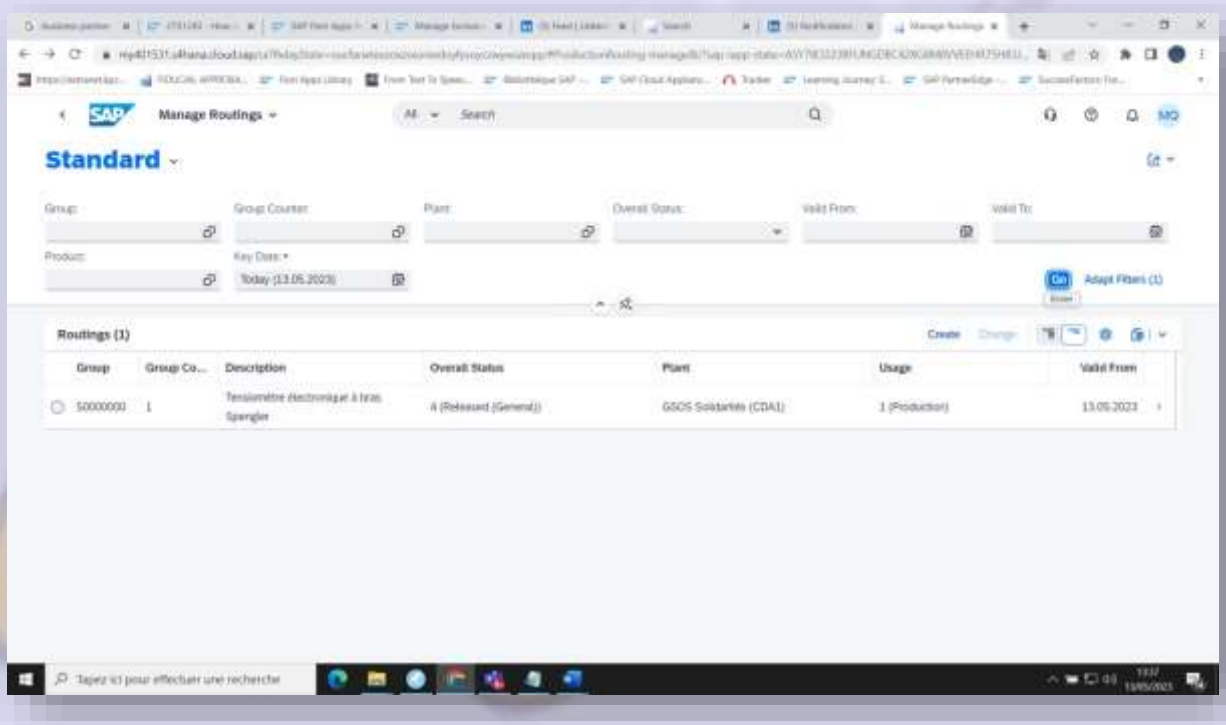
We would change routing if we have replaced old with new work centers or added one more operation to our manufacturing process. If our machine productivity is increased then we need to change the machine time or base quantity.

Step 1) same app

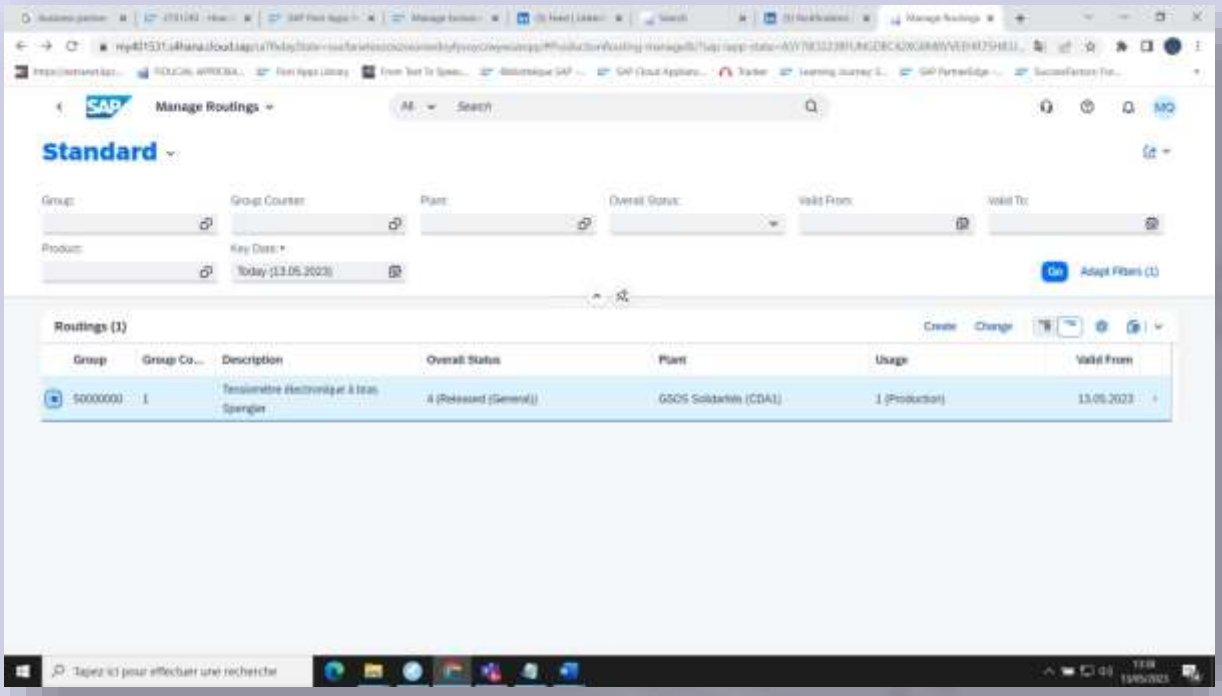
1. Enter parent material for which routing needs to be changed.

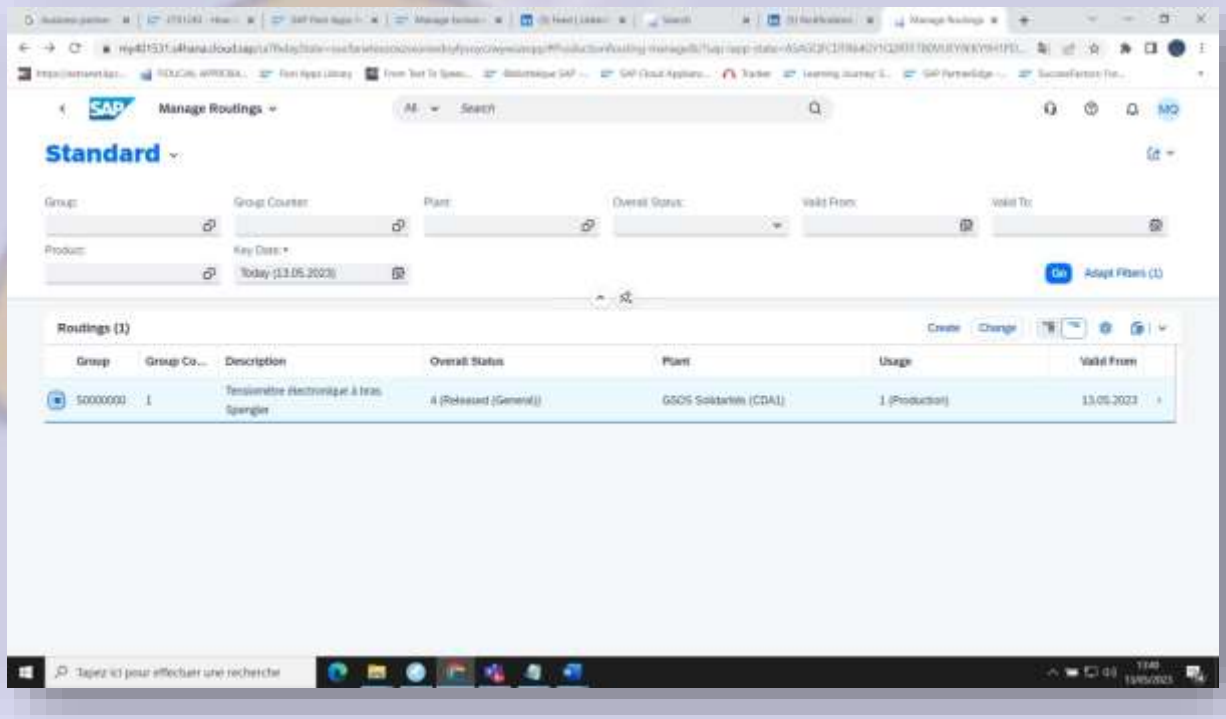
2. Enter Plant Code.

3. Key date (valid from date) which means that routing would be valid from that date is set to current date automatically.



Step 2) After filling in all the fields,click (right mark sign) Go.

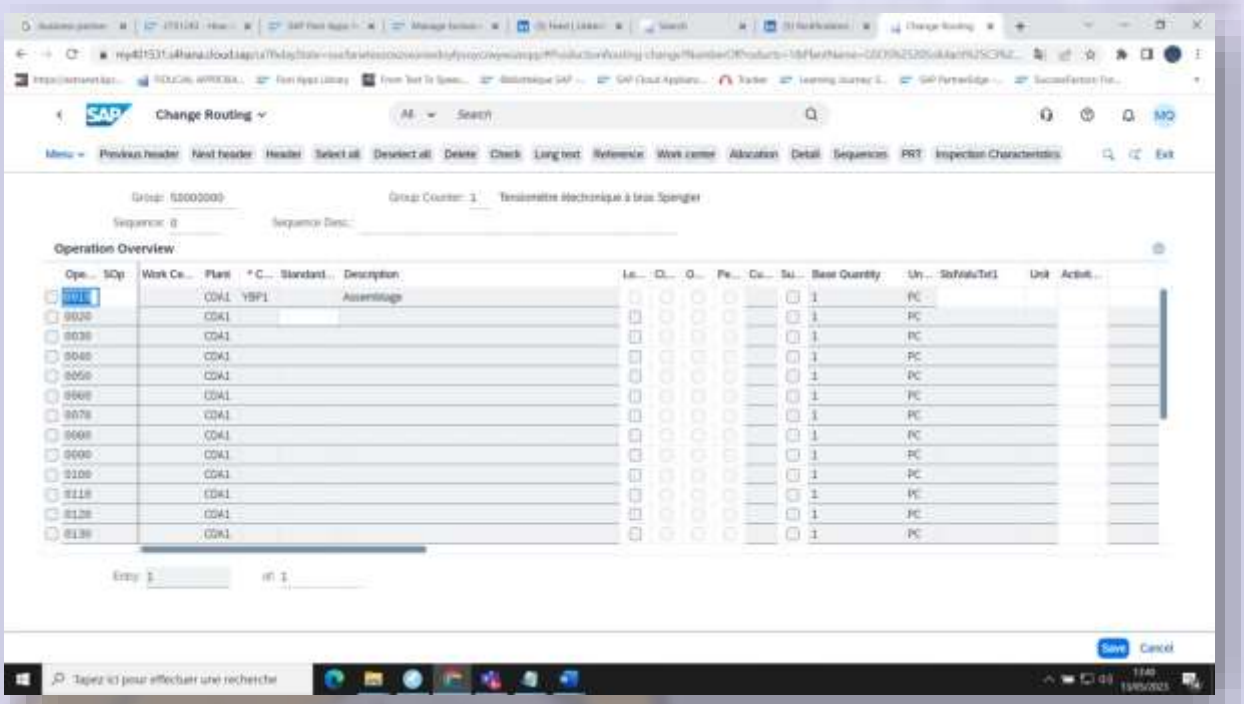

Manage Routings
Standard
Routings (1)
Create
Change
Group
Group Co...
Description
Overall Status
Plant
Usage
Valid From
50000000
1
Tensiomètre électronique à bras Spengler
4 (Released (General))
GSOS Solidarités (CDA1)
1 (Production)
13.05.2023

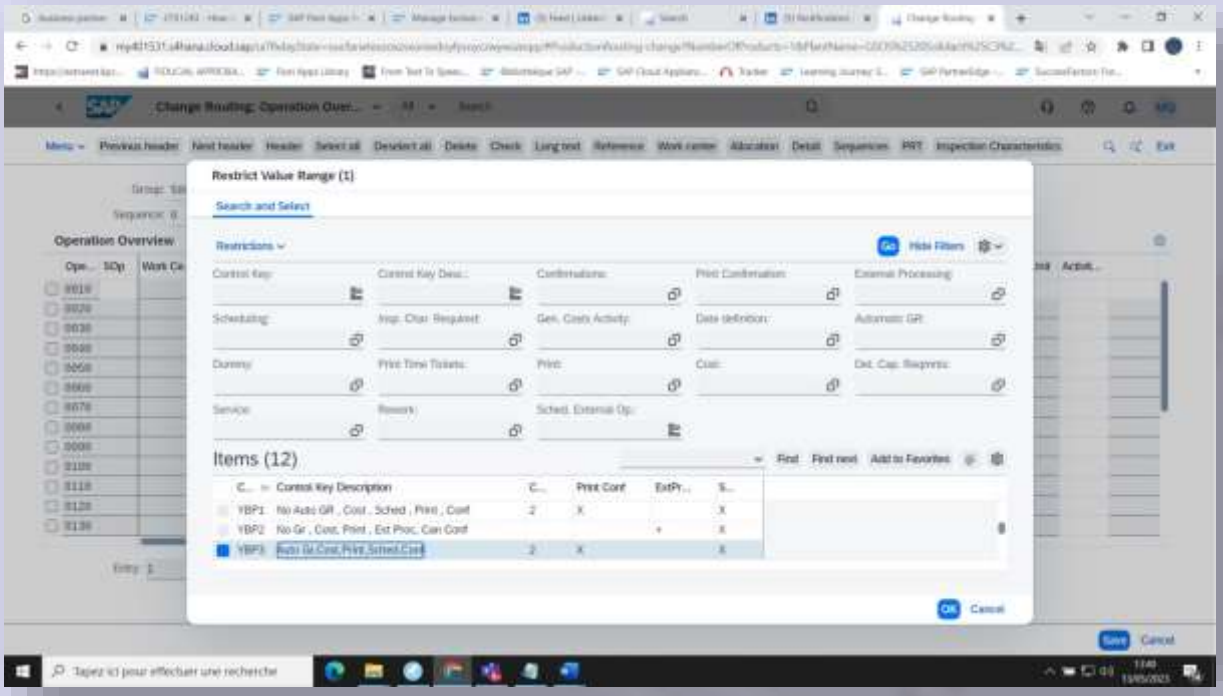

Manage Routings
Standard
Routings (1)
Create
Change
Group
Group Co...
Description
Overall Status
Plant
Usage
Valid From
50000000
1
Tensiomètre électronique à bras Spengler
4 (Released (General))
GSOS Solidarités (CDA1)
1 (Production)
13.05.2023

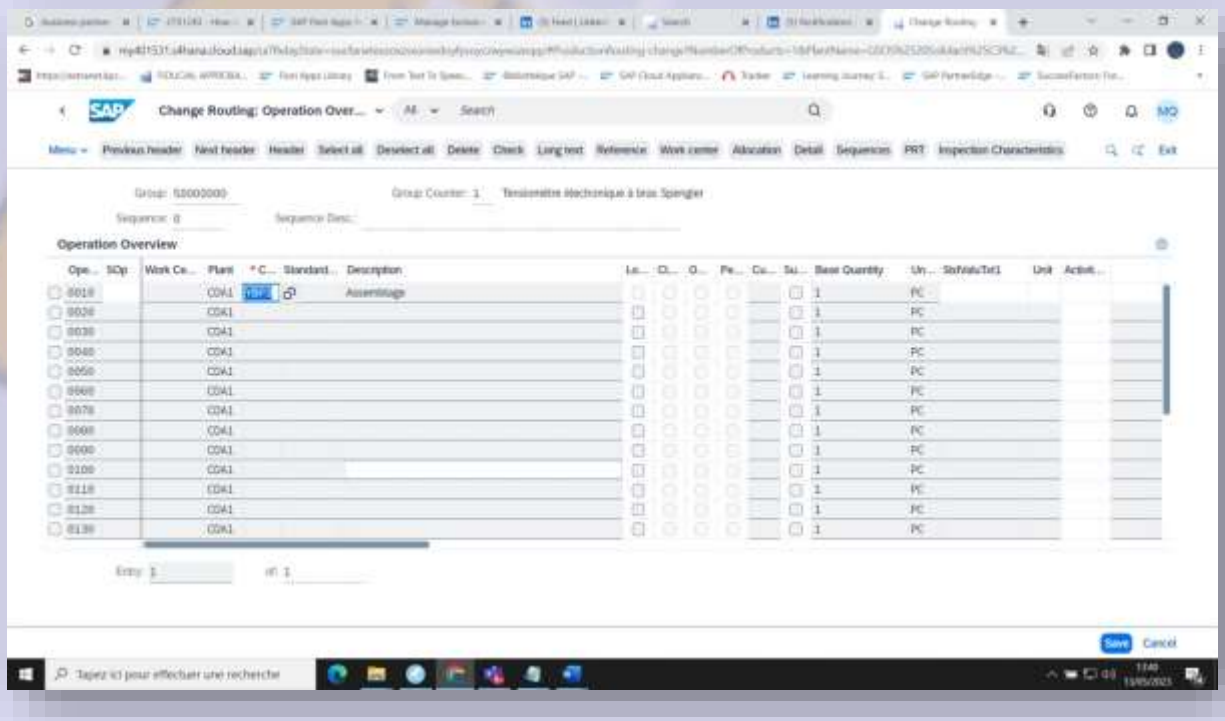
1. Change the control key from PP01 (without auto GR indicator) to PP03 (Auto GR indicator).Auto Goods Receipt means when you do production confirmation, Goods receipt of material will happen automatically.

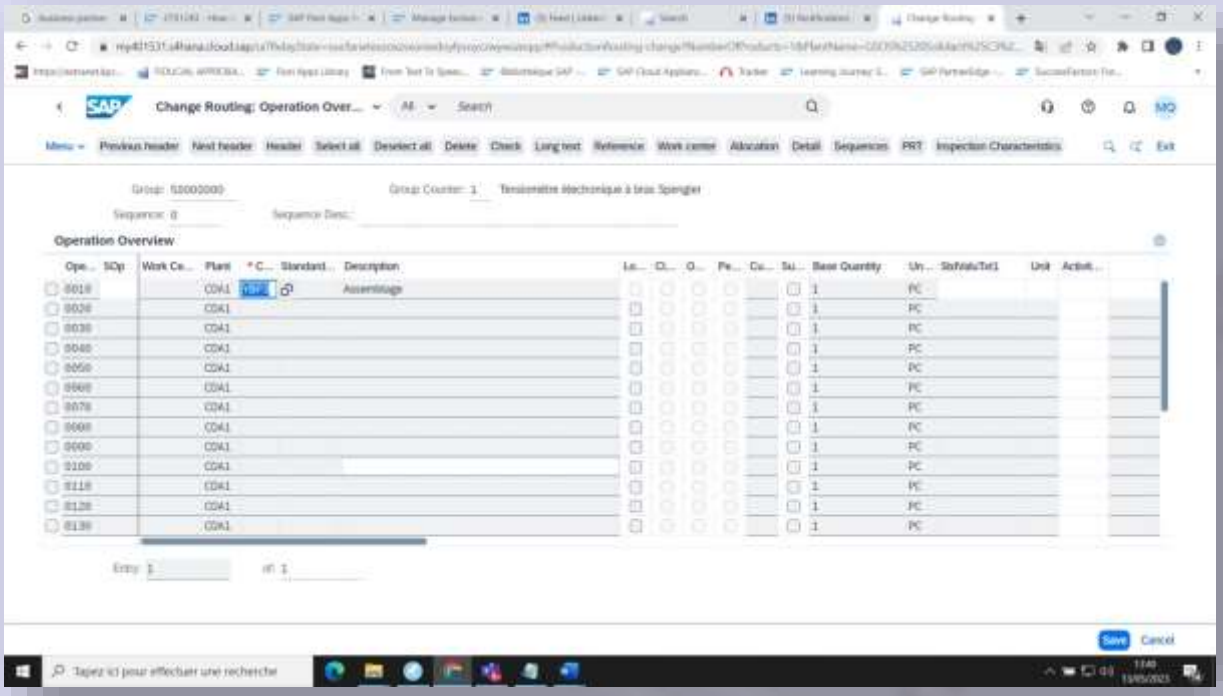
2. Change the Machine time.

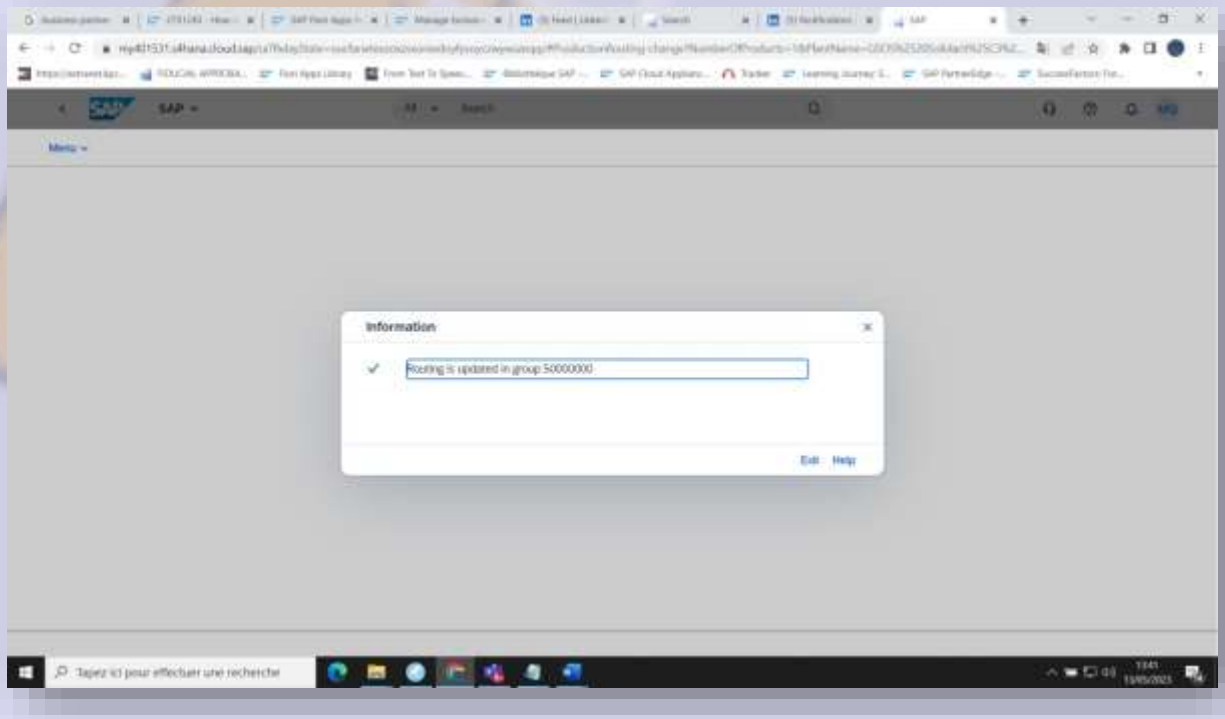
After finishing all modifications, click to save Routing.

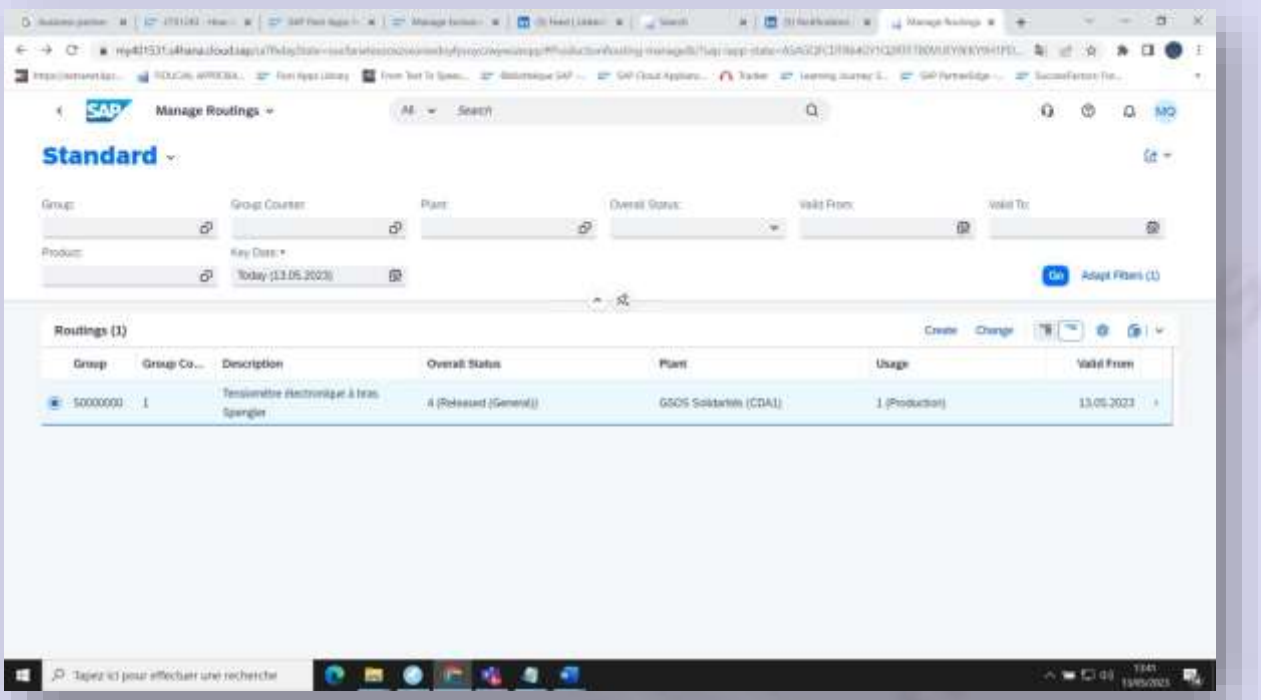



Change Routing: Operation Over...
Restrict Value Range (1)
Search and Select
Restrictions
Hide Filters
Operation Overview
Items (12)
Control Key Description
No Auto GR , Cost , Sched , Print , Conf
No Gr , Cost, Print , Est Proc, Can Conf
Auto Gr Cost Print Sched Conf
OK
Cancel
Save
Cancel


Change Routing: Operation Over...
Operation Overview
Assemblage
Save
Cancel


Change Routing: Operation Over...
Operation Overview
Save
Cancel


Information
Routing is updated in group 50000000
Exit
Help

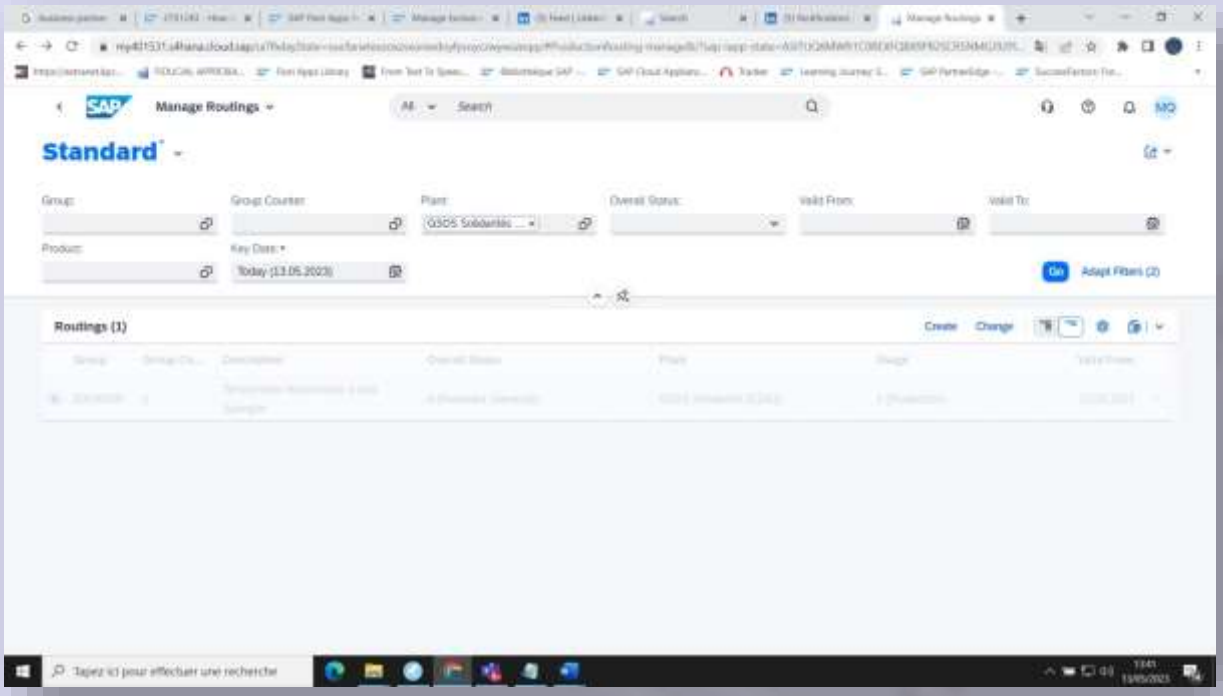


How to display Routing

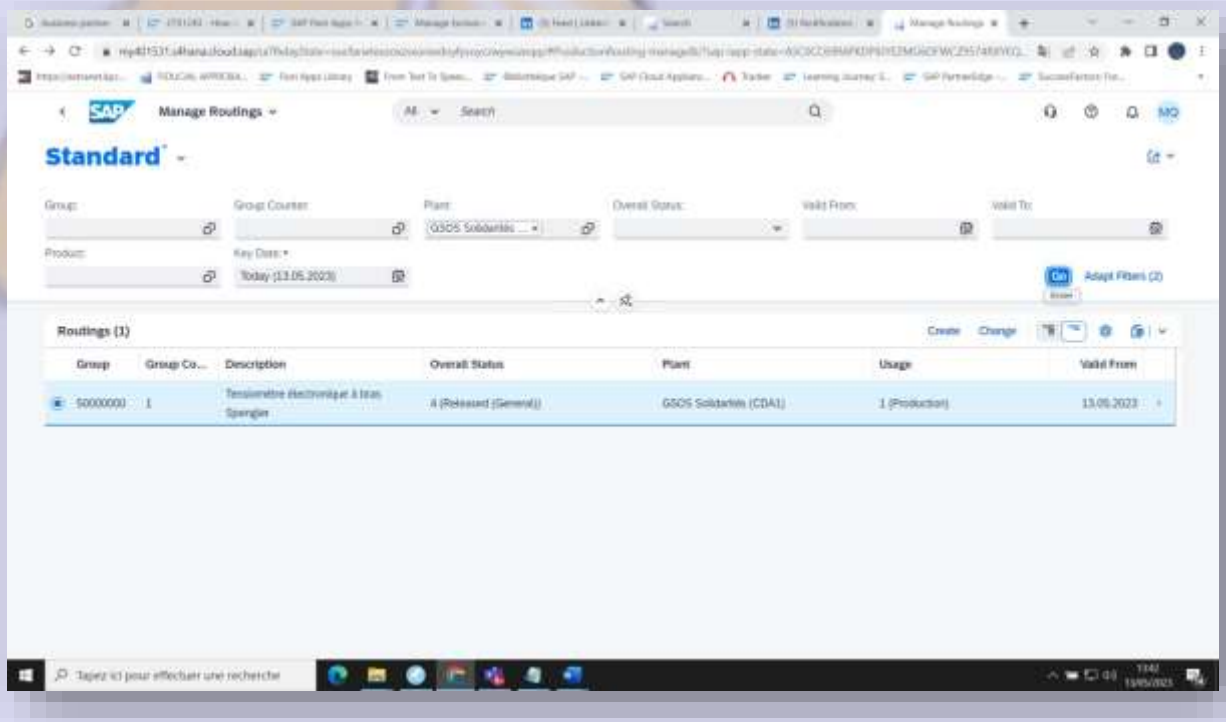
To display the routing we will follow the following steps.

Step 1) same app

1. Enter parent material for which routing needs to be displayed.
2. Enter Plant Code.
3. Key date (valid from date) which means that routing would be valid from that date is set to current date automatically.

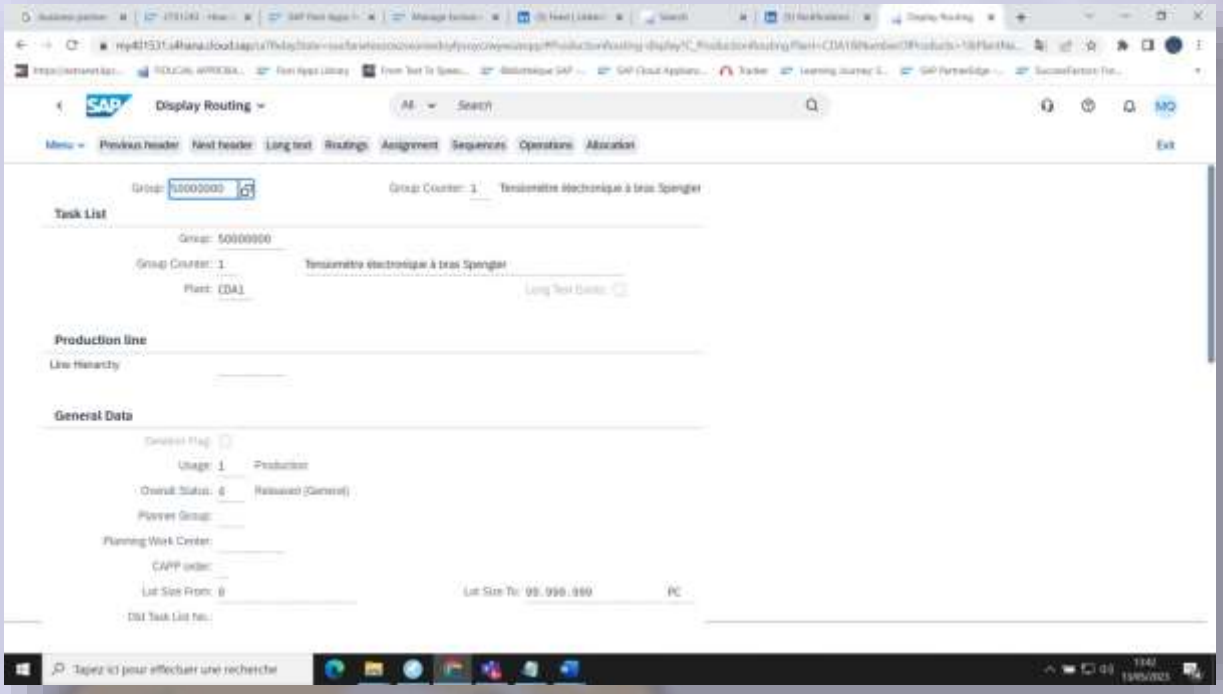


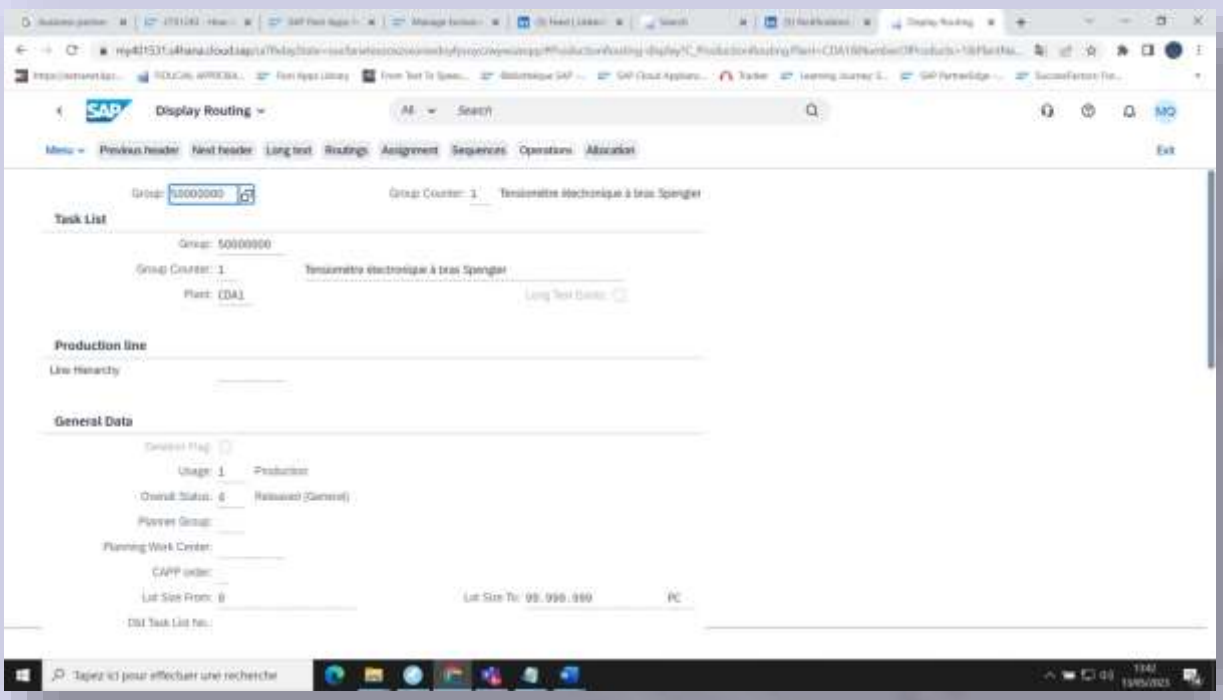
After filling in all the fields, click Go

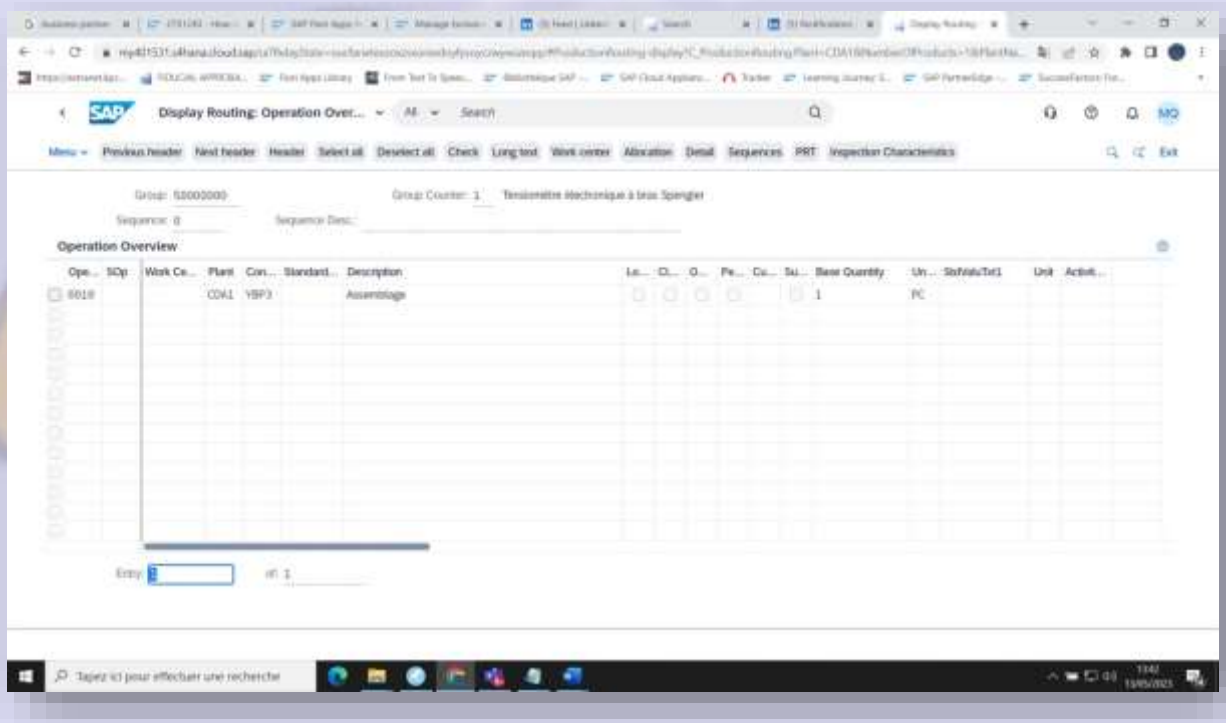


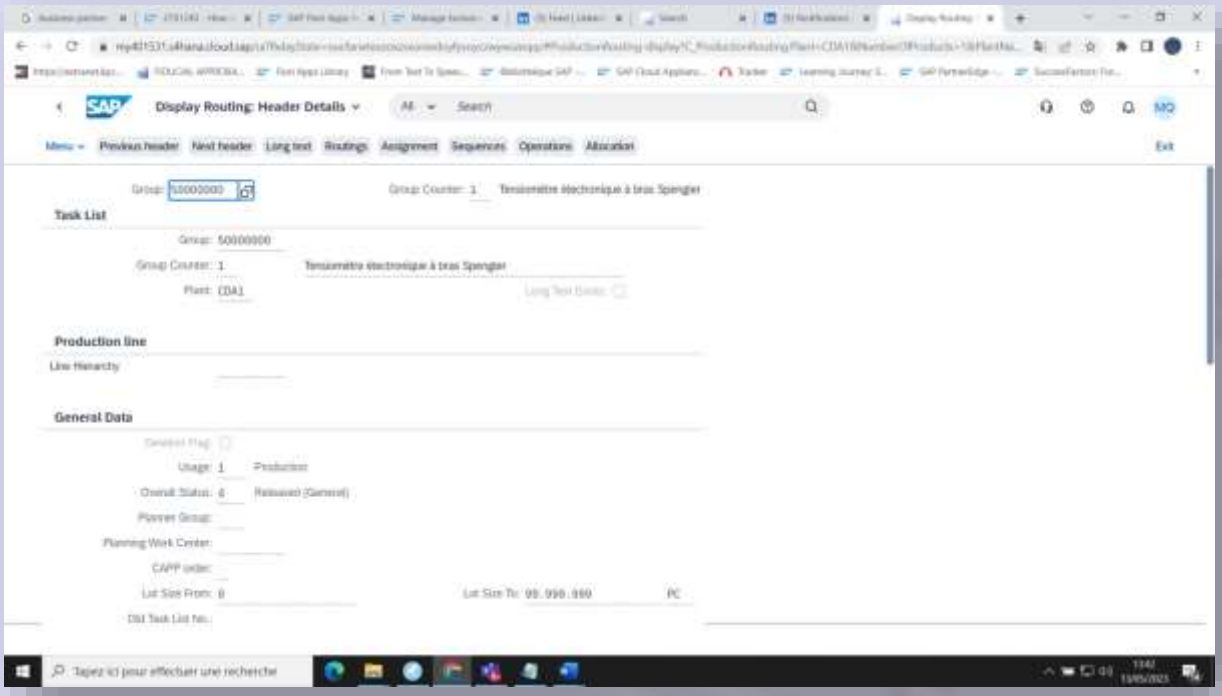
Step 2) In this screen we will see, how the operation data of routing is displayed.

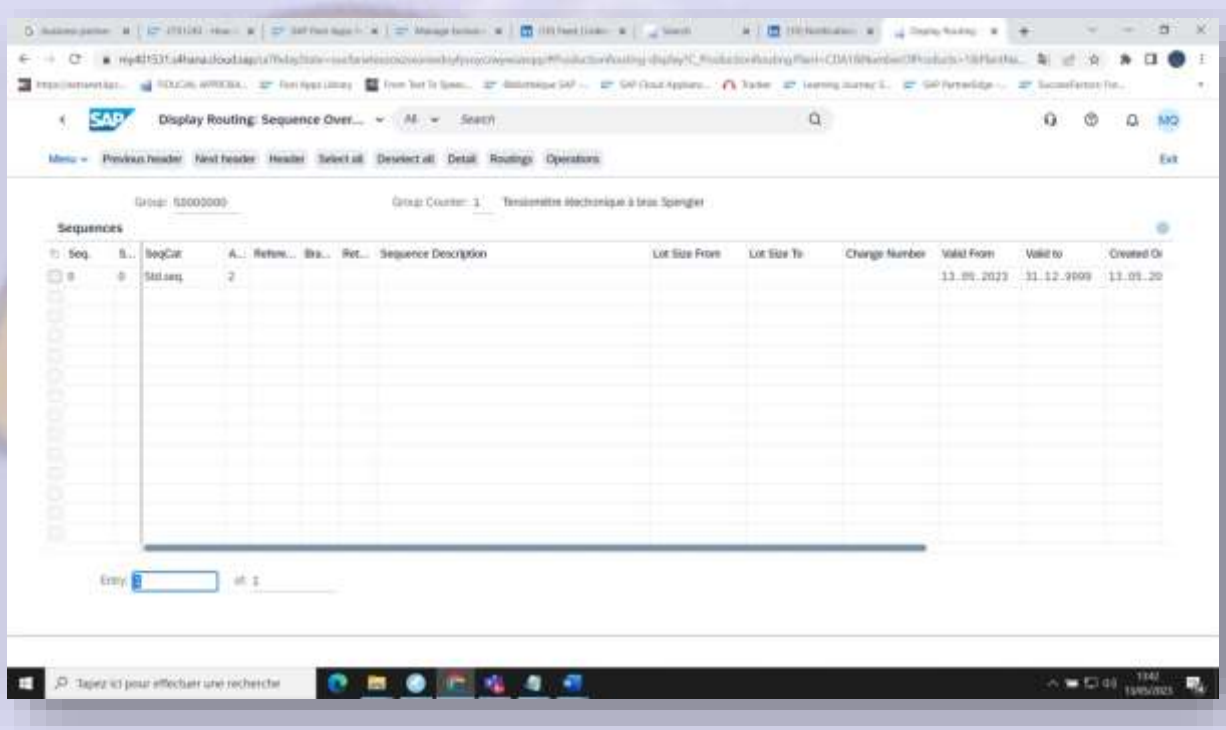
1. The screen will display the operation data of routing like – operation carried out by the work center, base quantity (100 EA), set up time (10 minutes) and machine time (35 minutes.)

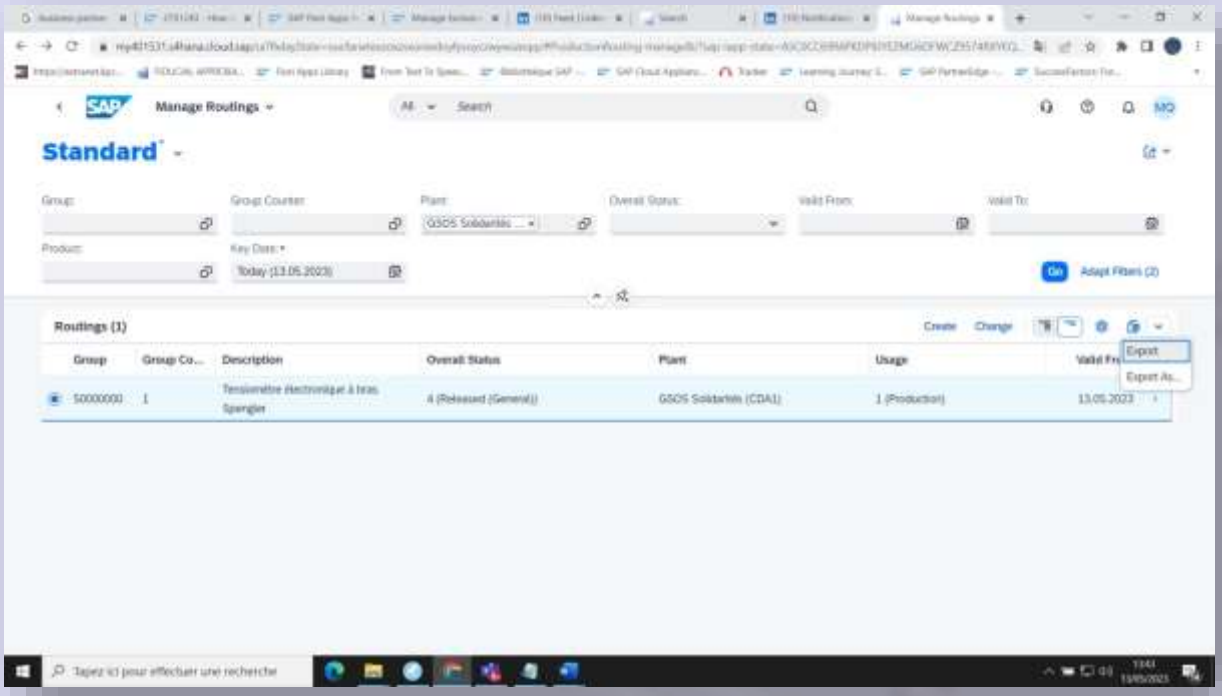


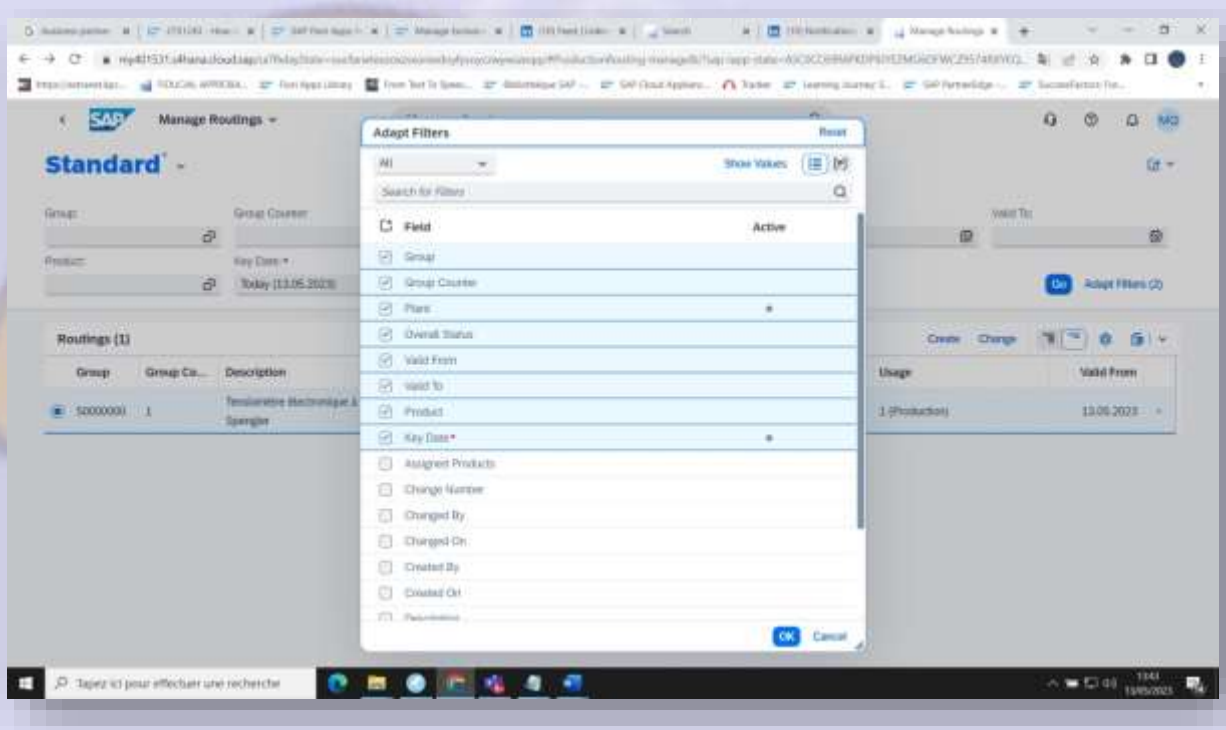

Display Routing
Previous header
Next header
Long text
Routings
Assignment
Sequences
Operations
Allocation
Exit
Task List
Production line
General Data


Display Routing: Operation Over...
Previous header
Next header
Header
Select all
Deselect all
Check
Long text
Work center
Allocation
Detail
Sequences
PRT
Inspection Characteristics
Exit
Operation Overview


Display Routing: Header Details
Previous header
Next header
Long text
Routings
Assignment
Sequences
Operations
Allocation
Exit
Task List
Production line
General Data


Display Routing: Sequence Over...
Previous header
Next header
Header
Select all
Deselect all
Detail
Routings
Operations
Exit
Sequences


Manage Routings
Standard
Routings (1)
Create
Change
Export
Export As...
Group
Group Co...
Description
Overall Status
Plant
Usage
Valid Fr...
50000000
1
4 (Released (General))
GSOS Solidariteit (CDA1)
1 (Production)
13.05.2023


Manage Routings
Standard
Adapt Filters
Reset
Show Values
Field
Active
Group
Group Counter
Plant
Overall Status
Valid From
Valid To
Product
Key Date
Assigned Products
Change Number
Changed By
Changed On
Created By
Created On
OK
Cancel
Routings (1)
Create
Change
Group
Group Co...
Description
Usage
Valid From
50000000
1
1 (Production)
13.05.2023

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THANK YOU

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