



## SAP R/3 PM Training Maintenance Processing



## **Summary**

- Notification
- Work Order
- Completion Confirmation





Chapter...

Notification



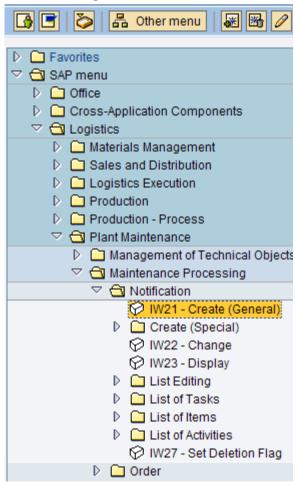
## SAP R/3 PM Notification

- Notification are requests for maintenance activities
- Notification are created automatically by maintenance plans or manually by the capture of failure or maintenance request
- Notifications documented the description of failures and maintenance activities
- Normally you have 1:1 relation between notification and work orders
- After the maintenance activities the relevant actions and cause codes are documented
- Notifications are the basis for the technical reporting and the generation of key performance indicators (KPI)



## **SAP R/3 PM Notification**

#### **SAP Easy Access**



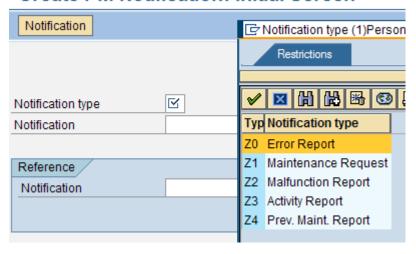
#### Transaction IW51 Create

The notification type describe different maintenance requests. Each notification type can be contain different information fields.

#### Exemplary notification types:

Error Report	Z0
Maintenance Request	Z1
Malfunction Report	Z2
Activity Report	Z3
Prev. Maintenance report	<b>Z</b> 4

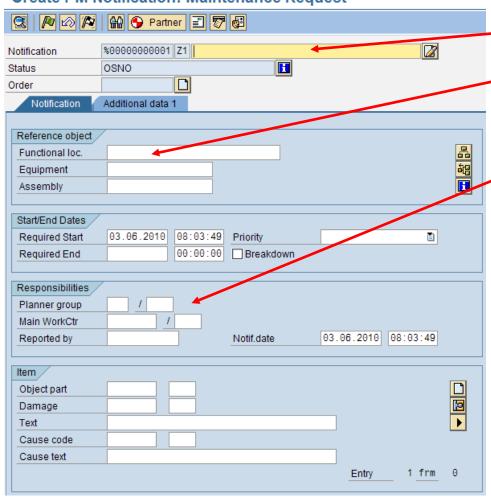
#### Create PM Notification: Initial Screen





## SAP R/3 PM Notification

#### **Create PM Notification: Maintenance Request**



Edit first the description and select the relevant technical object (FL or EQ). Press ENTER

All stored information will be complete.

Than you can edit

- -Object Part
- -Damage
- -Cause code

These information you can select from catalogs.

At the register Additional Data you can stored a detailed description of the failure.



## **SAP R/3 PM Notification**

Despersibilities	
Responsibilities	
Planner group /	Catalog Selection
Main WorkCtr /	
Reported by	▽ □ Object part Object parts
	ZALLG genral types of object parts
Item /	> 0010 not available, please use text
	dxic
Object part	0030 engine
Damage	▶ 0040 break
Text	▶ 0050 cage
Cause code	
Cause text	
Daniel William	
Responsibilities	
Planner group /	☐ Catalog Selection
Main WorkCtr /	
Reported by	□ Dayrage Overview of damage
	ZALLG general reasons for damages
Item /	0010 not available, please use text
Object part	▶ 0020 crack
Damage	▶ 0030 deformation ▶ 0040 leakage
Text	▶ 0040 leakage ▶ 0050 fouling
Cause code	V 0030 Touling
Cause code	
Cause text	

Catalog selection

Select one relevant item with double click.

You have catalogs for:

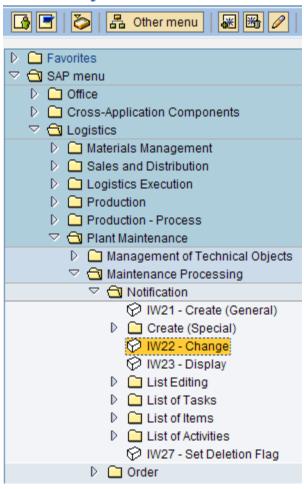
- -Object Part
- -Damage
- -Cause Code
- -Activities

Save your entries.



## SAP R/3 PM Change Notification

#### SAP Easy Access

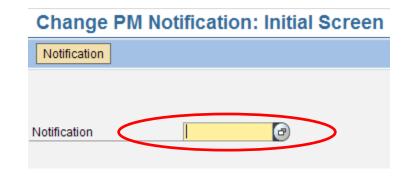


Transaction IW22 - Change

If it is necessary than you can change the notification.

If you know the notification number than you can use this transaction.

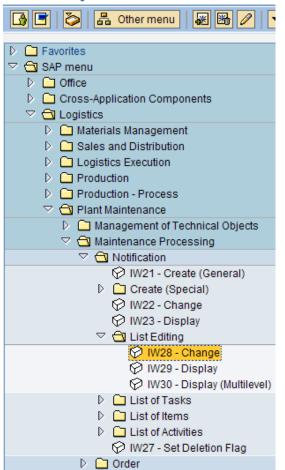
The most used transaction will be list editing.





## SAP R/3 PM Change Notification

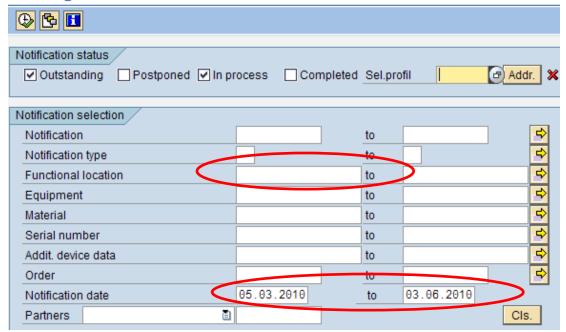
#### **SAP Easy Access**



Transaction IW28 - Change

The list editing are used for the creation of the notification list. Select the technical object and the selection period.

#### Change Notifications: Selection of Notifications





## SAP R/3 PM Change Notification

C	Change Notifications: List of Notifications									
G	② 🎾 🗟 🗟 🗗 🎖 🖟 🛗 🗋 Order 🔪 Order Notification 🕞 🎤 😘									
	S	Notif.date	Notification	Order	Description	Тур	Functional loc.	Description of functional location	Equipment	Description of technical object
		17.02.2010	10000092	700020	Test Rückmeldung unb. ungeplant	Z2	200-10-10-10-1	Stanzanlage 1.1	100006	Stanzautomat 1.1
		17.02.2010	10000093		Zu Auftrag 7000202 - Status EROF	Z0	200-10-10-10-1	Stanzanlage 1.1		
		18.02.2010	10000096		xchdtgjrzktul	Z2	200-10-10-10-1	Stanzanlage 1.1	100006	Stanzautomat 1.1
		19.02.2010	10000100		Zu Auftrag 7000202 - Status EROF	Z0	200-10-10-10-1	Stanzanlage 1.1		
		29.04.2010	10000124	7000292	Schleifmaschine gewechselt	Z2	200-45-10-20	Technologie Schleifen		
		06.05.2010	10000127		Störung Klappe 1	Z2	20-10-005-020-	Schmelztiegel		
		10.05.2010	10000128		Störung Ofenlinie	M2	20-10-005-010	Vorlegierungsofen (LGO)		
		11.05.2010	10000130		Störung Klappe 1	Z2	20-10-005-060-	Rührwerksklappe		
		11.05.2010	10000132		Lagerbock Ventilator 2 Streichen	Z1	20-10-005-060-	Rührwerk		
		18.05.2010	10000135	7000303		Z2	2000-10-10-010	SMT 1		
		27.05.2010	10000136	700030	Störung Klappe 1	Z0	20-10-005-010-	Rührwerksklappe		
		27.05.2010	10000137	7000302	Ofenklappe defekt	Z1	20-10-005-010-	Ofenzustellung		

From the list you can select the relevant notification with double click on the notification number.

#### **REMARK:**

If the selected parameter relevant for only one notification, than the system display the notification and not the notification list.



### SAP R/3 PM **Release or complete Notification**

#### **Change Notifications: List of Notifications** 🕲 🦻 📳 🖺 🗗 📅 🚹 🚟 🗋 Order 🔪 Order Notification 🗟 🎤 🏠 S Notif.date Notification Order Description Functional loc. Description of functional location Equipment Description of technical object 7000201 Test Rückmeldung unb. ungeplant 10000092 17.02.2010 200-10-10-10-1 Stanzanlage 1.1 100006 Stanzautomat 1.1 10000093 17.02.2010 Zu Auftrag 7000202 - Status EROF 200-10-10-10-1 Stanzanlage 1.1 18.02.201 10000096 xchdtgjrzktul 200-10-10-10-1 Stanzanlage 1.1 100006 Stanzautomat 1.1 200-10-10-10-1 Stanzanlage 1.1 19.02.2010 10000100 Zu Auftrag 7000202 - Status EROF 29.04.2010 10000124 7000292 Schleifmaschine gewechselt 200-45-10-20 Technologie Schleifen 06.05.2010 10000127 Störung Klappe 1 20-10-005-020- Schmelztiegel 10.05.2010 10000128 Störung Ofenlinie 20-10-005-010 Vorlegierungsofen (LGO) 11.05.2010 10000130 Störung Klappe 1 20-10-005-060- Rührwerksklappe 11.05.2010 10000132 Lagerbock Ventilator 2 Streichen 20-10-005-060- Rührwerk 18.05.201 10000135 7000303 2000-10-10-010 SMT 1 27.05.2010 10000136 700030° Störung Klappe 1 20-10-005-010- Rührwerksklappe

20-10-005-010- Ofenzustellung

Select one or more notification and than press the button release I or the button complete I

7000302 Ofenklappe defekt

27.05.2010

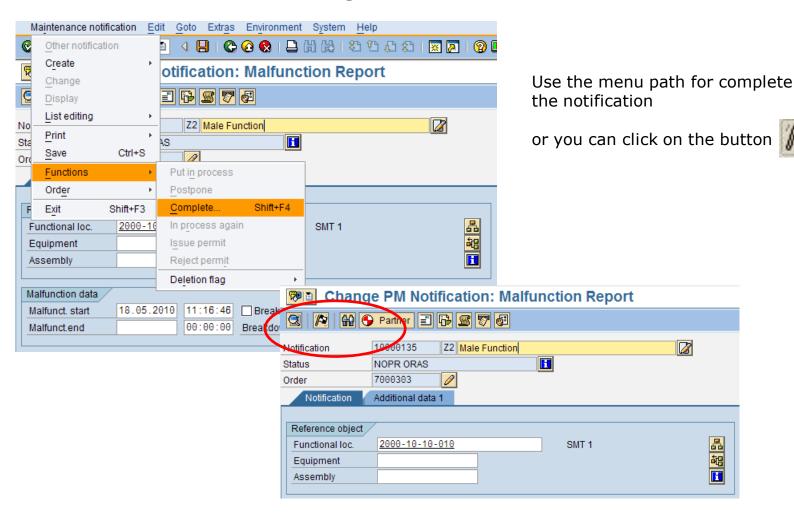
1000013







## **SAP R/3 PM Release or complete Notification**





## **SAP R/3 PM Notification**

Tutorial

Create Notification	IW21
Create Notification from the Structural Display	IH01
Change Notification	IW22
Change Notification from List	IW28
Modify Notification List	
Change Notification from the Structural Display	IH01
Close Notification	





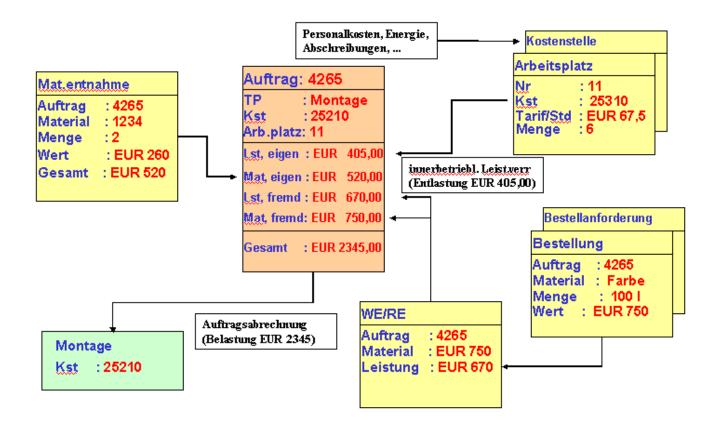
Chapter...

Work Order



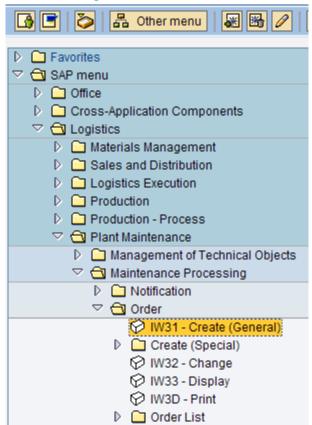
- The maintenance activities in the SAP-system are done with work order and notification. The work order is the cost collector and in the notification the technical history will be saved.
- A work order is not only a cost collector. The work steps needed for a repair can be planned in it manually or with a task list as well.
- In a work order you can plan the repair dates and times as well as responsible persons (own or external), needed materials or services (stock or non-stock).
- For every planned service or non-stock material one or more purchase requisitions will be generated.







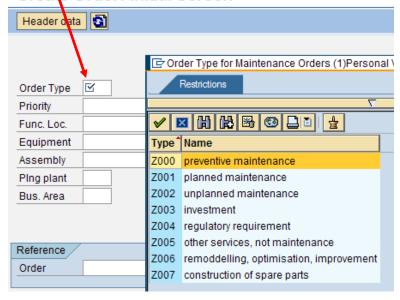
#### **SAP Easy Access**



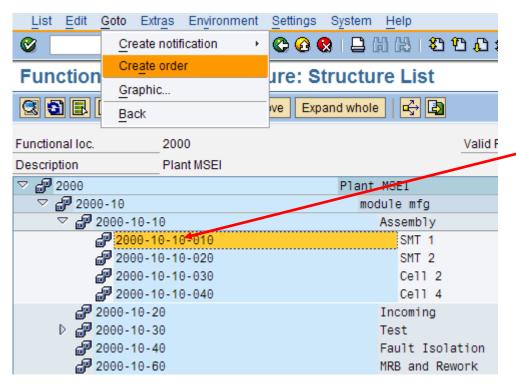
The order type control the accounting of work orders.

Preventive Maintenance	Z000
Planned Maintenance	Z001
Unplanned Maintenance	Z002
Investment	Z003
Regular requirements	Z004
Other Service, not maintenance	Z005
Remodeling, construction, improvement	Z006
Construction of spare part	Z007
· · · · · · · · · · · · · · · · · · ·	

#### Create Order: Initial Screen





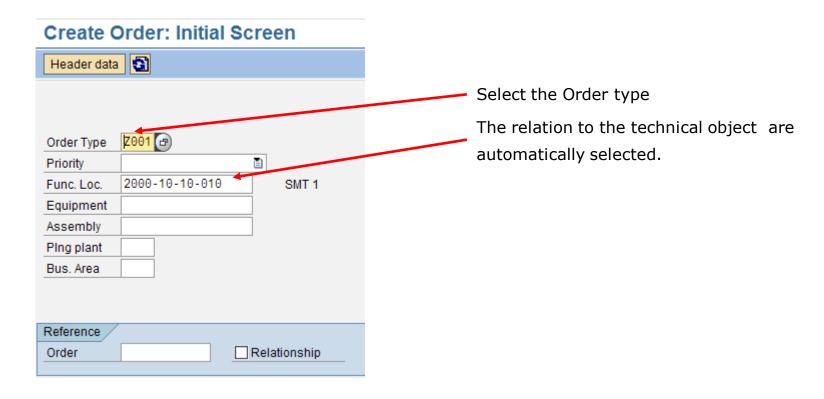


Transaction IH01 – Structural Display

Select the technical object from the structure.

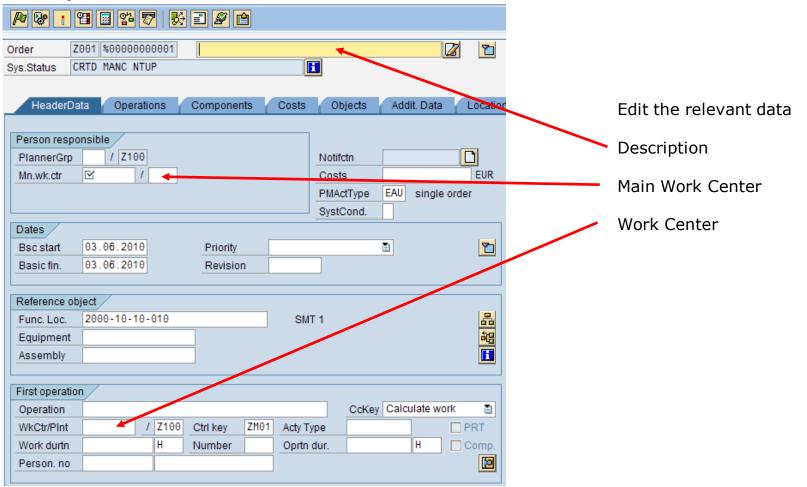
Open the menu "Goto" and create order





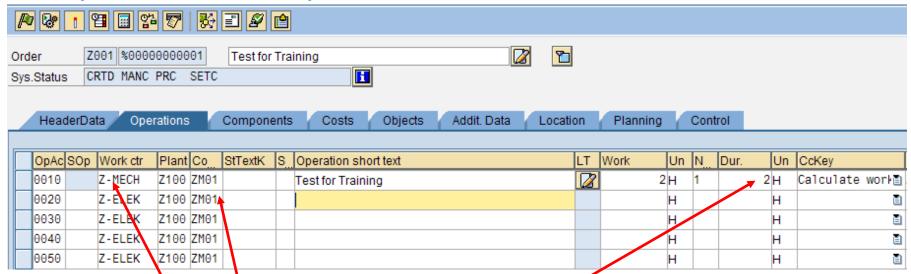


Create planned maintenance : Central Header





#### Create planned maintenance : Operation Overview



Edit the relevant data

Select the work center

If you have more then one maintenance activities with different work centers, than you can plan the steps.

Edit the planned duration for each task.

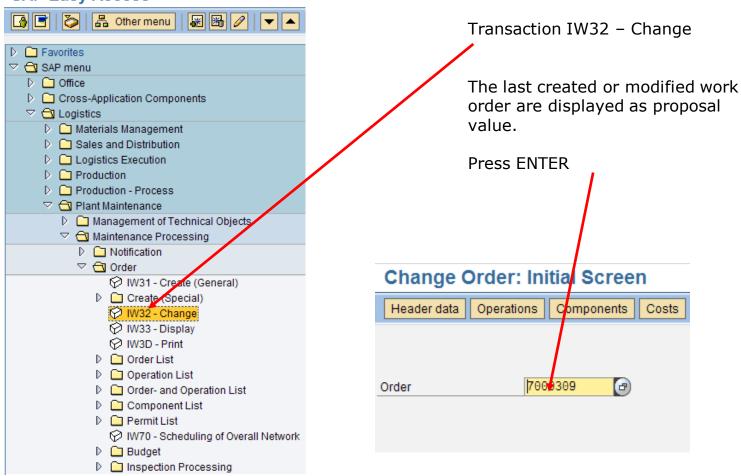
You can switch between internal and external work with the control key.

Save the work order.



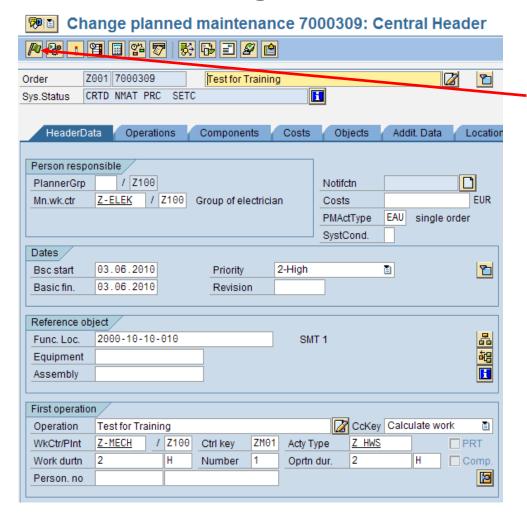
### SAP R/3 PM Change Work Order

#### **SAP Easy Access**





## SAP R/3 PM Change Work Order



Change or add data



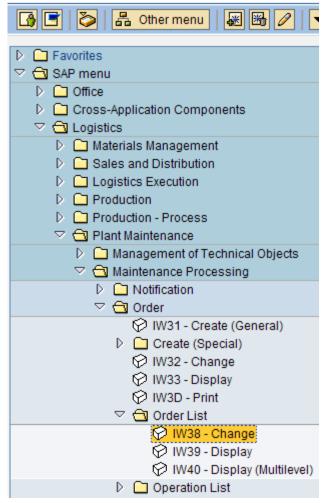


Save the work order



## SAP R/3 PM Order List

#### **SAP Easy Access**



Transaction IW38 - Change / IW39 - Display

Create the order list with following selection parameters:

Order status: outstanding, in progress

Functional Location: 2000\*

Period: 01.01.2010 - today

#### **Change PM Orders: Selection of Orders**

Settlement Receivers PRT								
Order status  Outstanding In process Com	npleted Historical	Sel.profil		Addr. 3				
Order selection								
Order		to		4				
Order Type		to		4				
Functional location	2000*	to		<b>=&gt;</b>				
Equipment		to		4				
Material		to		4				
Serial number		to		4				
Addit. device data		to		4				
Notification		to		4				
Main work center		to		4				
Plant for WorkCenter		to		4				
Period	01.01.2010 🗗	to 03	.06.2010					
Partners								
Currency								

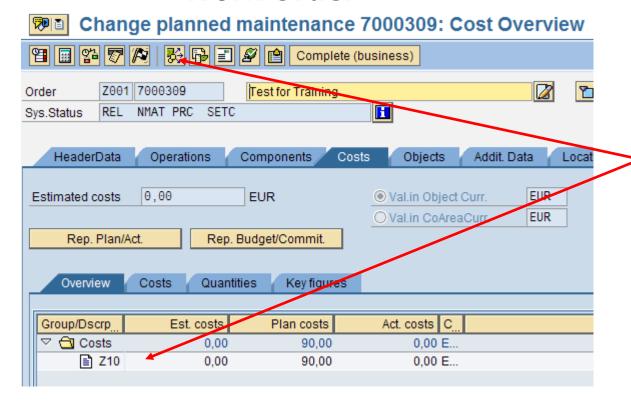


## SAP R/3 PM Order List

## Change PM Orders: List of Orders S Order Type Bsc start Description 7000294 Z002 01.06.2010 Repair Oven 2 7000303 Z001 27.05.2010 test 7000309 Z001 03.06.2010 Test for Training

Select one work order with double click on the order number.





At the cost overview you can see the planned costs.

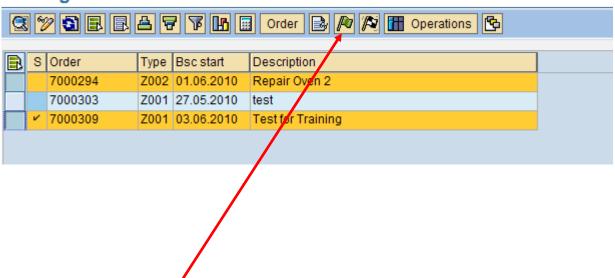
If you want change the settlement rule then press the button

Save and exit.



## SAP R/3 PM Order List

#### **Change PM Orders: List of Orders**

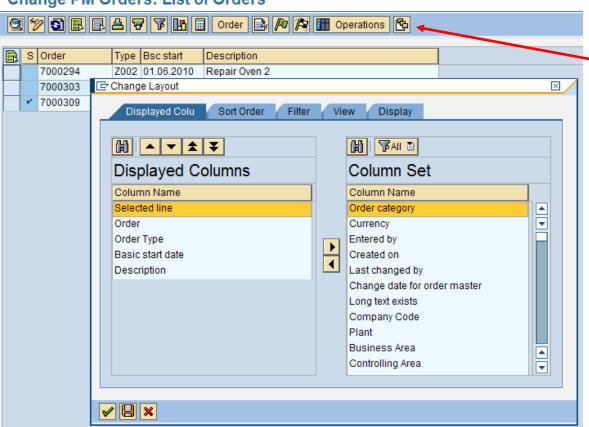


If you have not released work orders at these list, then can you mark one ore more and press the button



### SAP R/3 PM Modify Order List

**Change PM Orders: List of Orders** 



Press the button



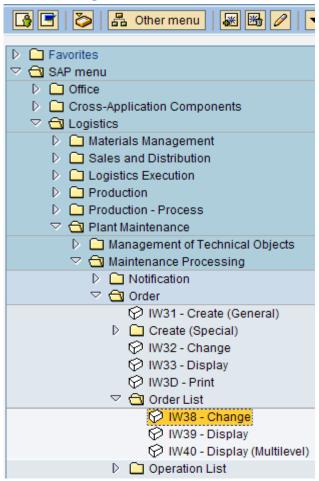
Now you can create your own layout for these list.

If you want, then you can save the layout as variant.



## SAP R/3 PM Order List

#### **SAP Easy Access**



Transaction IW38 - Change / IW39 - Display

Create the order list with following selection parameters:

Order status: outstanding, in progress

Functional Location: 2000\*

Period: 01.01.2010 - today

#### **Change PM Orders: Selection of Orders**

Settlement Receivers PRT								
Order status								
✓ Outstanding ✓ In process ☐ Com	npleted Historical	Sel.pro	fil	Addr. 3				
Order selection								
Order		to		4				
Order Type		to		4				
Functional location	2000*	to		4				
Equipment		to		4				
Material		to		4				
Serial number		to		4				
Addit. device data		to		4				
Notification		to		4				
Main work center		to		4				
Plant for WorkCenter		to		\$				
Period	01.01.2010	to	03.06.2010	_				
Partners 🖺								
Currency								

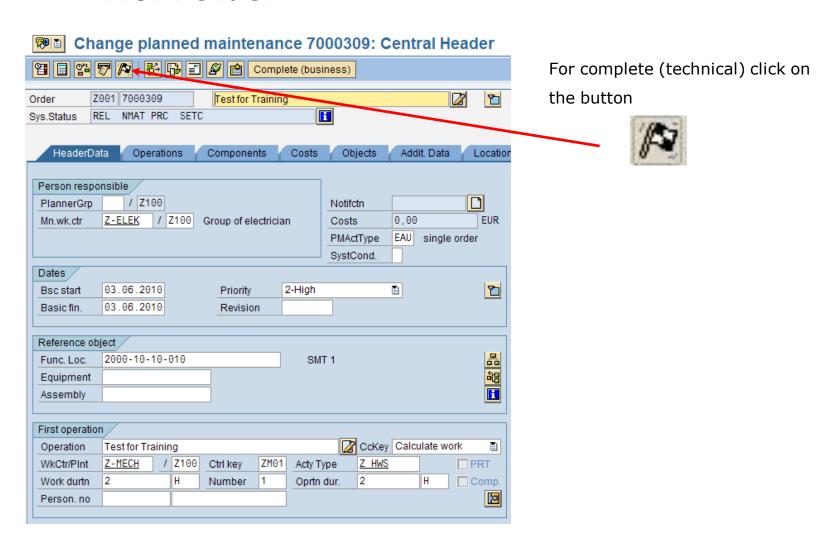


## SAP R/3 PM Order List

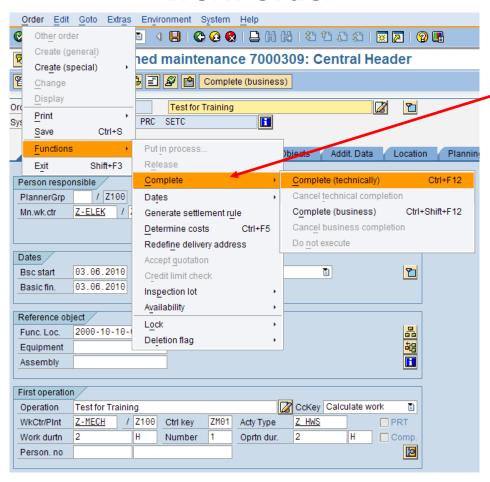
# Change PM Orders: List of Orders S Order Type Bsc start Description 7000294 Z002 01.06.2010 Repair Oven 2 7000303 Z001 27.05.2010 test 7000309 Z001 03.06.2010 Test for Training

Select one work order with double click on the order number.







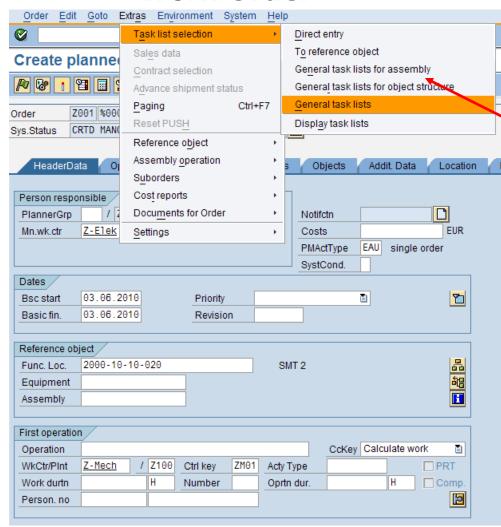


For complete (technical) you can also use the menu path.

#### **REMARK**

If it is necessary to change information at the work order after the complete, then you can chancel the complete.



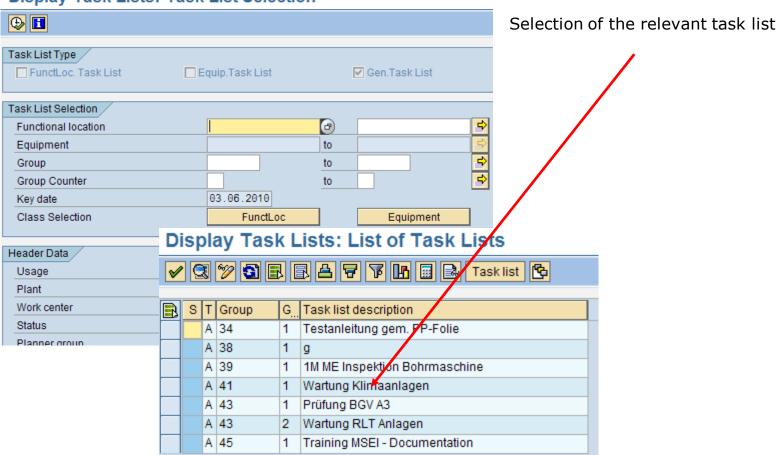


Create a new work order with transaction IW31 or use the structural display.

You can attached to the work order an task list. Use the menu path.

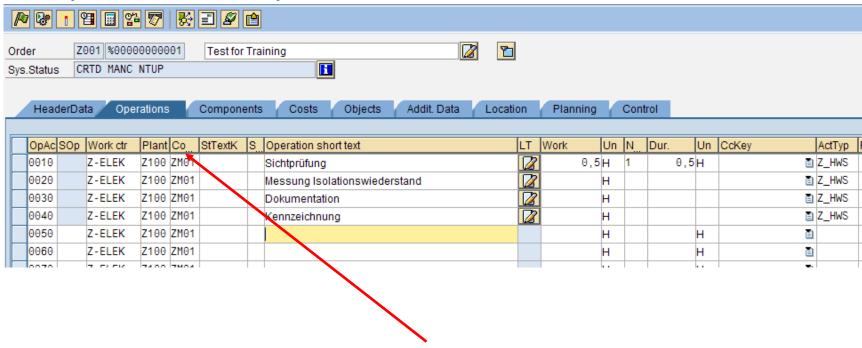


**Display Task Lists: Task List Selection** 





#### Create planned maintenance : Operation Overview

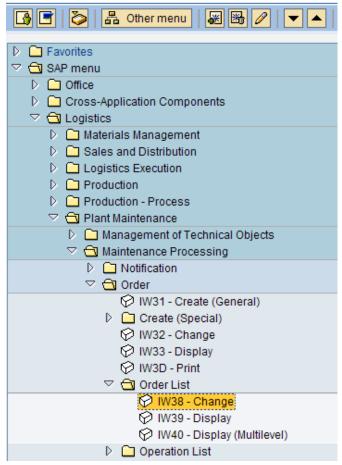


The task list are attached and the operation are listed.



#### SAP R/3 PM Order List

#### **SAP Easy Access**



For the planning of the work load for the next month, you can create the order list with all work orders for the main work center, for the work center or an complete list.

Select at the screen the parameters

#### Example:

Overview for the months 01 - 06

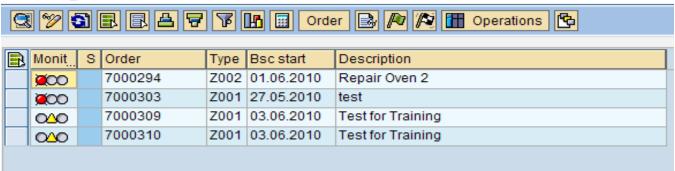
Use the monitor to display the priority or the due - date

#### **Change PM Orders: Selection of Orders**

©								
Order status  Outstanding In process Com	npleted Historical	Sel.profil	Add	r. <b>X</b>				
Order selection								
Order Order Type		to to		<del>1</del> <del>1</del>				
	2000*	to		\$				
Equipment Material		to		<u>↑</u>				
Serial number		to		<u>-</u>				
Addit. device data		to		4				
Notification		to		\$				
Main work center		to		<del>1</del>				
Plant for WorkCenter Period	01.01.2010	to 30.06	6.2010	4				
Partners		10 30.00	7.2010					
Currency								



#### **Change PM Orders: List of Orders**



Modify the list for you own requirements.



### **Tutorial**

	IH01
Create Work Order from Structural Display	
Change Work Order	IW32
Work Order List (Change Mode)	IW38
Release Work Order	IW32
Complete Work Order	IW32
Create Work Order with Task List	IW32
Create Report with Order List	IW39





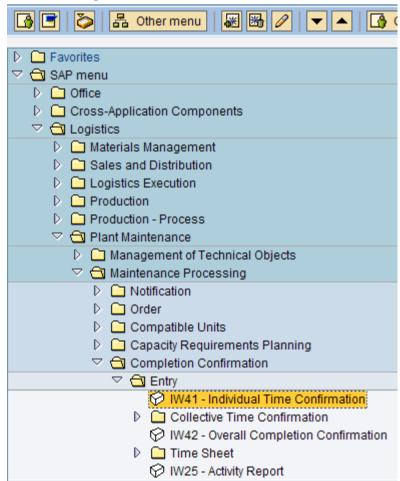
Chapter...

Confirmation



## SAP R/3 PM Confirmation

#### **SAP Easy Access**



Transaction IW42 - Overall Completion Confirmation

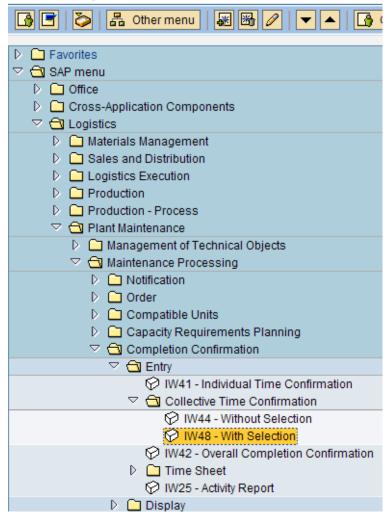
You can edit the working time to the relevant operation.

Overall Completion Confirmation									
Times Services Goods movements									
Order 7900310 Test for Training Tech.completion Oper./Act.									
Time confirmation									
Confirmation Op Sul	b. O Act. Work	Unit F	C N Work Ctr	PInt	АТу.	Α	Postg	date	Pers. No.
1017 0010	<b>Q</b> 0,50	н 🔽	Z-ELEK	Z100	Z_HWS		03.06	.2010	
1018 0020	<b>2</b> 1	H V	Z-ELEK	Z100	Z_HWS		03.06	.2010	
1019 0030	<b>2</b> 1	н 🔽	Z-ELEK	Z100	Z_HWS		03.06	. 2010	
1020 0040	<b>1</b>	H	Z-ELEK	Z100	Z_HWS		03.06	. 2010	
	4 b								
	Act.Data 🖺 🗑								
Goods movements									
Goods Movements Ove	rview								
Material	Description		Quantity		U	Plant	Stor	Batch	Val
	<b>4 b</b>								
				Entr	1	1	Frm	0	



## **SAP R/3 PM Confirmation**

#### **SAP Easy Access**



Transaction IW428- With Selection

Select the functional location.

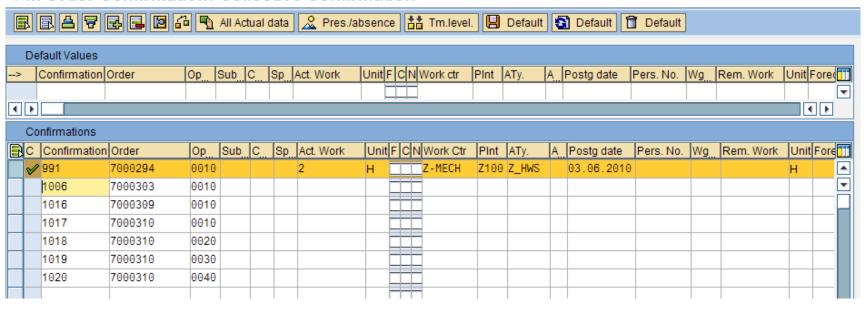
#### Confirmation using operation list: Selection of Order Operation

<b>(4)</b>			
Compatible Unit ID		to	4
Construction Measure Number		to	4
Equipment		to	4
Functional Location		to	4
Order operation selection			
Work center		to	4
Plant		to	➾
Order		to	***
Order Type		to	4
Reference date		to	4
Operation/Activity		to	4
Operation short text		to	4
Functional location	2000*	<b>a</b>	4
Equipment		to	2



## SAP R/3 PM Confirmation

#### PM Order Confirmation: Collective Confirmation



Edit the relevant data.



## **SAP R/3 PM Confirmation**

#### **Tutorial**

Individual Time Confirmation	IW41
Overall Completion Confirmation	IW42
Collective Time Confirmation	IW48

**Demonstration Optimized Confirmation** 



## Thank you



















P&S Consulting GmbH Am Kiekenbusch 10 47269 Duisburg

Frank Ostwald Director Sales & Marketing Tel.: +49.203.75990.29

E-mail: frank.ostwald@ps-consulting.de

www.ps-consulting.de

