

For Smart Factory



Operating |  
User |

# MANUAL



# MES<sup>3D</sup>

ERP + MES + SCADA

Auto & S.I

# User Manual MES

- I. FG Receiving
- II. FG Stock
- III. OBA
- IV. FG Mapping Trolley
- V. FG Shipping Order

## Table of Contents



# WMS

## Warehouse Management System



Explain

### I. FG Receiving

**Purpose:**

**\_ Receive products to the warehouse**

Step by step:

1. Search function
2. Select the waiting form from the list
3. Information about product list waiting to receive
4. Select Location and fill in Buyer QR code information. Then select "SCAN" to receive
5. Click the button to delete.

The screenshot shows the WMS FG Receiving interface. The top navigation bar includes 'CDL' and 'FG RECEIVING'. The breadcrumb trail is 'WMS > FG > FG Receiving'. The search bar contains 'FVI SO Name', 'Product Code', and 'Description', with a 'SEARCH' button and 'Activated data' toggle. Below the search bar is a table with columns: FVI SO Name, Product Code, CDL Code, Status, Order Qty, Scan Qty, EA Qty, Shipping Date, Description, User Created, Create Date, and User. The table contains 8 rows of data. Callout 1 points to the search bar. Callout 2 points to the first row. Callout 3 points to the 'Location' and 'Buyer Code' fields in the 'SCAN' dialog. Callout 4 points to the 'SCAN' button. Callout 5 points to the delete button in the row actions menu. Callout 6 points to the row actions menu. The 'SCAN' dialog shows 'Location: FG05' and 'Buyer Code: Q310643740DZ97A1N0NSR007010100'. Below the dialog is a table with columns: Product Code, Buyer Code, Semi Lot Code, Location Code, Status, Actual Qty, User Scanned, and Scanned Date. The table contains 2 rows of data. Callout 3 points to the 'Semi Lot Code' field, and callout 5 points to the 'Scanned Date' field.

FVI SO Name	Product Code	CDL Code	Status	Order Qty	Scan Qty	EA Qty	Shipping Date	Description	User Created	Create Date	User		
1	Shipping to FG	Q310-643740	30BH00054-00	Waiting	2	2	200	2023-06-21	shipping	my	2023-06-21 1...	my	
2	my test	Q310-643740	30BH00054-00	Received	2	2	200	2023-06-20	1	my	2023-06-20 1...		
3	Shipping to FG 16 ...	Q310-643740	30BH00054-00	Waiting	2			2023-06-02	1	my	2023-06-16 0...		
4	Shipping to FG	Q310-643740	30BH00054-00	Received	1	1	100	2023-06-14	shipping	my	2023-06-14 1...		
5	test SO NName edit	Q310-643740	30BH00054-00	Waiting	3	1	100	2023-06-12	des	duy	2023-06-12 1...	duy	
6	Xuất	Q310-643740	30BH00054-00	Received	2	2	200	2023-06-09	1	myadmin1	2023-06-09 1...	myad	
7	Xuất 0506	Q310-643740	30BH00054-00	Waiting	5	2	200	2023-06-05		myadmin1	2023-06-05 1...		
8	Shipping FG 02 06	Q310-643740	30BH00054-00	Received	1	1	100	2023-06-02		myadmin1	2023-06-02 0...		

Total: 30 rows | 1 row selected | 1 2 3 4

Product Code	Buyer Code	Semi Lot Code	Location Code	Status	Actual Qty	User Scanned	Scanned Date	
1	Q310-643740	Q310643740DZ97A1N0NSR006010100	Q310-643740-DKT-20230526135019-A-5MQ	FG05	Received	100	my	2023-06-21 18:03:45
2	Q310-643740	Q310643740DZ97A1N0NSR007010100	Q310-643740-DKT-20230526134826-A-B10		Waiting	100		

# WMS

## Warehouse Management System



Explain

## II. FG Stock

**Purpose:**

**\_ Monitor product information in stock**

Step by step:

1. Search function
2. Product list information in stock
3. Click the button to see details.

CDL

FG STOCK

WMS > FG > FG Stock

Product Type Work Order Model Product Code Buyer QR Received Date SEARCH

Model	CDL Code	Product Code	Product Type	Product Name	Total
AMB585NE-01	30BH00054-00	Q310-643740	SAMPLE	COVER WINDOW	1,500

Lot No	Buyer QR	WO Code	Qty (Roll/EA)	Location	Status	User Created	Received Date
1	20230527	Q310643740DZ97A1NON5R006010100	WO20230526-001	100 FG05	NOT YET	my	2023-06-21 18:03:45
2	20230614	Q310643740DZ97A1NON6E001010100	WO20230601-001	100 FG06	STOCK	my	2023-06-21 10:34:53
3	20230620	Q310643740DZ97A1NON6K001010100	WO20230620-001	100 FG02	STOCK	my	2023-06-21 08:30:19
4	20230620	Q310643740DZ97A1NON6K002010100	WO20230620-001	100 FG01	STOCK	my	2023-06-21 08:29:41
5	20230531	Q310643740DZ97A1NON5V002010100	WO20230526-001	100 FG05	STOCK	duy	2023-06-12 15:28:12

Total: 14 rows 1 row selected

2	+	AMB653DH01	30JY00623-00	LJ63-22316A	BOX TAPE	COVER PAD	400
3	+	AMB577MQ01	30BH00016-01	LJ63-16335A	BOX TAPE	COVER WINDOW/???	2,000

FG Stock



### III. OBA

**Purpose:**

**\_ Add OBA check form**

Step by step:

1. Search function
2. Click "CREATE" to add
3. Fill in the information:

- \_ OBA Name
- \_ OBA Qty
- \_ Product Code
- \_ Lot No
- \_ Pick Date

And select "SAVE" to add or

select "RESET" to re-enter the information

4. The added OBA check form information will be displayed at the top of the list.

The screenshot shows the WMS OBA management interface. On the left is a sidebar with navigation options: CDL, Material, WIP, FG, FG Receiving, FG Stock, OBA (highlighted with a red dashed box), FG Mapping Trolley, FG Shipping Order, and FG Shipping Sorting. The main area displays a table of OBA checks with columns: OBA Name, Check Status, OBA Qty, Model, Product Code, CDL Code, Lot No, Date, and User Created. A search bar is located above the table, and a '+ CREATE' button is on the left. A 'CREATE' modal form is open, showing fields for OBA Name, OBA Qty, Product Code, Lot No, and Pick Date, along with 'RESET' and 'SAVE' buttons. Red dashed boxes and blue circles with numbers 1-4 highlight key elements: 1. Search bar, 2. '+ CREATE' button, 3. 'RESET' and 'SAVE' buttons in the modal, 4. A row in the table.

	OBA Name	Check Status	OBA Qty	Model	Product Code	CDL Code	Lot No	Date	User Created				
1	OBA Check	Not yet	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	✓	✖	✎	↓
2	my test	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	✓	✖	✎	↓
3	my test hold NG	Not yet	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	✓	✖	✎	↓
4	my test hold OK	OK	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	✓	✖	✎	↓
5	Check OBA 16 06	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230616	2023-06-16	my	✓	✖	✎	↓
6	Check OBA1	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230612	2023-06-12	myadmin1	✓	✖	✎	↓
7	Check OBA	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230612	2023-06-12	myadmin1	✓	✖	✎	↓

# WMS

## Warehouse Management System



Explain

### III. OBA

**Purpose:**

**\_ Modify OBA check form**

Step by step:

1. Click the button to edit the form
2. Fill in the updated information and select "SAVE" to save or "RESET" to return the original information.

The screenshot displays the WMS OBA management interface. On the left is a navigation menu with options like Material, WIP, FG, FG Receiving, FG Stock, OBA (highlighted with a red dashed box), FG Mapping Trolley, FG Shipping Order, and FG Shipping Sorting. The main area shows a table of OBA records with columns for OBA Name, Check Status, OBA Qty, Model, Product Code, CDL Code, Lot No, Date, and User Created. A 'MODIFY' form is overlaid on the table, containing fields for OBA Name, OBA Qty, Product Code, Lot No, and Pick Date, along with 'RESET' and 'SAVE' buttons. A red dashed box highlights the 'MODIFY' form, and a blue circle with the number '1' points to the edit icon in the table. Another blue circle with the number '2' points to the 'SAVE' button in the form.

	OBA Name	Check Status	OBA Qty	Model	Product Code	CDL Code	Lot No	Date	User Created	
1	OBA Check	Not yet	100	AMBS85NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	
2	my test	NG	100	AMBS85NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	
3	my test hold NG	Not yet	100	AMBS85NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	
4	my test hold OK	OK	100	AMBS85NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	
5	Check OBA 16 06	NG	100	AMBS85NE-01	Q310-643740	30BH00054-00	20230616	2023-06-16	my	
6	Check OBA1	NG	100						myadmin1	
7	Check OBA	NG	100						my	

### MODIFY

OBA Name \*  
OBA Check

OBA Qty \*  
100

Product Code \*  
30BH00054-00-Q310-643740

Lot No  
20230621

Pick Date  
2023-06-21

# WMS

## Warehouse Management System



Explain

### III. OBA

**Purpose:**

**\_ Delete and restore deleted OBA check form**

Step by step:

1. Click the button to delete
2. Click "Activated data" to view the list of deleted OBA check form.
3. Click the button to restore.

WMS > FG > OBA

+ CREATE

OBA Name From To SEARCH Activated data

OBA Name	Check Status	OBA Qty	Model	Product Code	CDL Code	Lot No	Date	User Created	
1 OBA Check	Not yet	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	1
2 my test	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	2
3 my test hold NG	Not yet	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	3
4 my test hold OK	OK	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	4
5 Check OBA 16 06	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230616	2023-06-16	my	5
6 Check OBA1	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230612	2023-06-12	myadmin1	6
7 Check OBA	NG	100	AMB585NE-01	Q310-643740	30BH00054-00			my	7

WMS > FG > OBA

+ CREATE

OBA Name From To SEARCH Deleted data

OBA Name	Check Status	OBA Qty	Model	Product Code	CDL Code	Lot No	Date	User Created	
1 OBA Check	Not yet	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my	3
2 OBA Check 02 06	Not yet	100	AMB585NE-01	Q310-643740	30BH00054-00	20230601	2023-06-02	myadmin1	4
3 test	Not yet	50	AMB622MR01	LJ63-16300A	30BH00014-00	test	2023-05-16	van	5

# WMS

## Warehouse Management System



Explain

### III. OBA

**Purpose:**

**\_ Scan the OBA check code**

Step by step:

1. Select OBA check form in the list
2. Fill in the Buyer Code information and press Enter on the keyboard to confirm.
3. Product information just scanned
4. Delete function
5. Click the button to check OBA
6. Fill in the result information after checking and click "SAVE" to save
7. Excel file download function.

WMS > FG > OBA

+ CREATE

OBA Name	Check Status	OBA Qty	Model	Product Code	CDL Code	Lot No	Date	User Created
1 OBA Check	Not yet	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my
2 my test	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my
3 my test hold NG	Not yet	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my
4 my test hold OK	OK	100	AMB585NE-01	Q310-643740	30BH00054-00	20230621	2023-06-21	my
5 Check OBA 16 06	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230616	2023-06-16	my
6 Check OBA1	NG	100	AMB585NE-01	Q310-643740	30BH00054-00	20230612	2023-06-12	myadmin1
7 Check OBA	NG	100	AMB585NE-01	Q310-643740	30BH00054-00			my
8 MyCheck	OK	100	AMB585NE-01	Q310-643740	30BH00054-00	20230522	2023-06-09	myadmin1

Total: 40 rows 1 row selected

Buyer Code

Buyer Code	OBA Qty	User Created	Create Date
1 Q310643740D297A1N0NSR006010100	100	my	2023-06-21 18:09:32

CREATE

OBA Name: OBA Check Staff Code: 180201272 - Nguyễn Đức Nhâm 阮... Check Date: 2023-06-21 Result: OK

QC Type	QC Item	QC Standard	QC Tool	Frequency	Answer	Input
Ngoại quan OBA 1705	BURR	L < 0.2mm ignore, L ≥ 0.2mm 0EA	Mắt thường / Kính lúp	2 OK 3 NG	Result: Không có khác thường	Result: OK
Ngoại quan OBA 1705	씻어짐	L < 0.5mm ignore, L ≥ 0.5mm 0EA	Mắt thường / Kính lúp	2 OK 3 NG	Result: Không có khác thường	Result: OK
Ngoại quan OBA 1705	Tạp chất, ô nhiễm	Φ < 0.15 mm ignore, Φ ≥ 0.15mm 3EA, Φ ≥ 0.30mm 0EA; 단, 직경10mm 내 균집 없을 것, 이물 제거 후 전수 사용 가능	Mắt thường / Kính lúp	2 OK 3 NG	Result: Không có khác thường	Result: OK
Ngoại quan OBA 1705	Bao bì	Φ < 0.15 mm ignore, Φ ≥ 0.15mm ( 포장지 내부에 5EA, 자재표면, 측면에 10EA)	Mắt thường / Kính lúp	2 OK 3 NG	Result: Không có khác thường	Result: OK

SAVE





### IV. FG Mapping Trolley

**Purpose:**

**\_ Product packaging or mapping trolley**

Step by step:

1. Enter the Buyer Code and select "SCAN" to scan the code
2. Information about the Buyer QR code has just scanned
3. Delete function
4. Click on "RESET" to cancel scanning all Buyer QR codes scanned or "CONFIRM" to confirm the mapping
5. Click on the Box QR code just linked
6. Information on the list of Buyer QR stamps in the box
7. Click to select the box QR code in the list
8. Click on "PRINT" to print QR stamp
9. Unlink function
10. Search function

The screenshot shows the 'FG MAPPING TROLLEY' interface. At the top, there's a 'Buyer QR' field with the value 'Q310643740DZ97A1N0N5R006010100'. Below it are buttons for 'SCAN', 'RESET', and 'CONFIRM'. A table displays scanned items with columns for Product Code, Buyer QR, Qty, and Create Date. A search bar is located at the bottom right. A second table below shows a list of items with columns for Product Code, Box QR, Box Status, Qty, and Un Map. A 'PRINT' button is on the left side of the interface.

Product Code	Buyer QR	Qty	Create Date
1 Q310-643740	Q310643740DZ97A1N0N5R006010100	100	2023-05-26 13:51:03

  

Product Code	Box QR	Box Status	Qty	Un Map
1 Q310-643740	Q310643740DZ97A1N0N5R0010010...	NOT YET		
2 Q310-643740	Q310643740DZ97A1N0N5T0020010...	SHIPPED	100	
3 Q310-643740	Q310643740DZ97A1N0N5V0010010...	NOT YET	100	
4 Q310-643740	Q310643740DZ97A1N0N610010010...	SHIPPED	100	
5 Q310-643740	Q310643740DZ97A1N0N5T0010010...	SHIPPED	100	
6 LJ63-22316A	LJ6322316ADZ97A1N0O5N001001005	SHIPPED	100	
7 Q310-643740	Q310643740DZ97A1N0N5N0010030...	SHIPPED	300	
8 LJ63-16335A	LJ6316335ADZ97A1N0I5N001001005	SHIPPED	100	
9 LJ63-22316A	LJ6322316ADZ97A1N0H5N00100100	NOT YET	100	
10 LJ63-16335A	LJ6316335ADZ97A1N0E5N001001005	SHIPPED	100	

# WMS

## Warehouse Management System



Explain

### V. FG Shipping Order

**Purpose:**

**\_ Add product delivery form**

Step by step:

1. Search function
2. Click "CREATE" to add
3. Fill in the information:
  - \_ Buyer Code
  - \_ Delivery Date
  - \_ DescriptionAnd select "SAVE" to add or select "RESET" to re-enter the information
4. The added product delivery form information will be displayed at the top of the list.

CDL

FG SHIPPING ORDER

WMS > FG > FG Shipping Order

+ CREATE

Buyer Code Delivery Date Description SEARCH Activated data

	Buyer Code	Delivery Date	Description	User Created	Create Date	User Updated	Update Date	
1	A001	2023-05-29	1	myadmin1	2023-05-29 18:33:33			
2	C504	2023-05-23		my	2023-05-23 17:34:06			
3	A001	2023-05-19	ss	duy	2023-05-19 16:13:38			
4	C505	2023-05-18		myadmin1	2023-05-18 13:26:22			

CREATE

Buyer Code \*

Delivery Date \*

Description

RESET SAVE

# WMS

## Warehouse Management System



Explain

### V. FG Shipping Order

**Purpose:**

**\_ Modify product delivery form**

Step by step:

1. Click the button to edit the form
2. Fill in the updated information and select "SAVE" to save or "RESET" to return the original information.

The screenshot displays the 'FG SHIPPING ORDER' interface. On the left is a navigation menu with 'FG Shipping Order' highlighted. The main area shows a table of shipping orders with columns for Buyer Code, Delivery Date, Description, User Created, Create Date, User Updated, and Update Date. A red dashed box highlights the 'EDIT' icon in the first row. Below the table, a 'MODIFY' form is shown with fields for Buyer Code (A001), Delivery Date (2023-05-29), and Description (1). A red dashed box highlights the 'RESET' and 'SAVE' buttons at the bottom of the form. Hand icons indicate the user's actions: clicking the edit icon and then the save button.

	Buyer Code	Delivery Date	Description	User Created	Create Date	User Updated	Update Date	
1	A001	2023-05-29	1	myadmin1	2023-05-29 18:33:33			1
2	C504	2023-05-23		my	2023-05-23 17:34:06			
3	A001	2023-05-19	ss	duly	2023-05-19 16:13:38			
4	C505	2023-05-18		myadmin1	2023-05-18 13:26:22			
5	A001	2023-05-17	gfd	myadmin1	2023-05-17 09:42:16			

**MODIFY**

Buyer Code \*  
A001

Delivery Date \*  
2023-05-29

Description  
1

RESET SAVE



### V. FG Shipping Order

#### Purpose:

#### \_ Delete and restore deleted product delivery form

Step by step:

1. Click the button to delete
2. Click on "Activated data" to view the list of deleted product delivery form.
3. Click the button to restore.

The screenshot shows the 'FG SHIPPING ORDER' page in the WMS. The left sidebar has 'FG Shipping Order' highlighted. The main area has a table with columns: Buyer Code, Delivery Date, Description, User Created, Create Date, User Updated, and Update Date. The 'Activated data' toggle is turned on. A red dashed box highlights the 'Activated data' toggle and the 'Delete' button in the first row of the table. A blue circle with the number '1' points to the 'Delete' button, and another blue circle with the number '2' points to the 'Activated data' toggle.

	Buyer Code	Delivery Date	Description	User Created	Create Date	User Updated	Update Date
1	A001	2023-05-29	1	myadmin1	2023-05-29 18:33:33		
2	C504	2023-05-23		my	2023-05-23 17:34:06		
3	A001	2023-05-19	ss	duy	2023-05-19 16:13:38		
4	C505	2023-05-18		myadmin1	2023-05-18 13:26:22		

The screenshot shows the 'FG SHIPPING ORDER' page in the WMS. The left sidebar has 'FG Shipping Order' highlighted. The main area has a table with columns: Buyer Code, Delivery Date, Description, User Created, Create Date, User Updated, and Update Date. The 'Deleted data' toggle is turned on. A red dashed box highlights the 'Deleted data' toggle and the 'Restore' button in the first row of the table. A blue circle with the number '3' points to the 'Restore' button.

	Buyer Code	Delivery Date	Description	User Created	Create Date	User Updated	Update Date
1	A001	2023-05-29	1	myadmin1	2023-05-29 18:33:33	my	2023-06-21 18:17:17
2	C502	2023-05-14	SO	my	2023-05-14 14:53:13	duy	2023-05-19 16:15:17
3	C504	2023-05-10	1	my	2023-05-10 13:44:10	duy	2023-05-19 16:15:22
4	00001	2023-05-05		hieumes	2023-05-05 15:22:54	duy	2023-05-19 16:14:29



### V. FG Shipping Order

**Purpose:**

**\_ Scan product delivery code**

Step by step:

1. Select the product delivery slip from the list.
2. Fill in the box QR code and select "SCAN" to scan
3. Information on the list of boxes of products that have just been scanned
4. Delete function
5. Click on the box to see details
6. Information on the list of product packages in the box.
7. Click to print the product delivery form.

The screenshot shows the 'FG SHIPPING ORDER' interface. The main table lists shipping orders with columns: Buyer Code, Delivery Date, Description, User Created, Create Date, User Updated, and Update Date. Row 1 is highlighted in yellow and circled with a blue '1'. A hand icon points to this row. Below the table, there is a 'Box QR' input field and a 'SCAN' button, circled with a blue '2'. A hand icon points to the 'SCAN' button. Below that, there is a table of scanned boxes with columns: Product Code, Box QR, Qty, and Delete. Row 1 of this table is circled with a blue '3'. A hand icon points to the 'Delete' button in row 1, circled with a blue '4'. A hand icon points to the 'Box QR' field in row 1, circled with a blue '5'. Below that, there is a table of product packages with columns: Product Code, Buyer QR, and Qty. Row 1 of this table is circled with a blue '6'. A hand icon points to the 'Delete' button in row 1 of the scanned boxes table, circled with a blue '7'. A hand icon points to the 'Delete' button in row 1 of the scanned boxes table, circled with a blue '7'.

Buyer Code	Delivery Date	Description	User Created	Create Date	User Updated	Update Date
1 A001	2023-05-29	1	myadmin1	2023-05-29 18:33:33	my	2023-06-21 18:17:41
2 C504	2023-05-23		my	2023-05-23 17:34:06		
3 A001	2023-05-19	ss	duy	2023-05-19 16:13:38		
4 C505	2023-05-18		myadmin1	2023-05-18 13:26:22		
5 A001	2023-05-17	gfd	myadmin1	2023-05-17 09:42:16		
6 C502	2023-05-09	LJ63-22211a	chieuvanluy	2023-05-09 13:33:47		
7 C591	2023-04-28	ss	duy	2023-04-24 09:20:15		
8 C519	2023-04-26	test add 2 edit	duy	2023-04-24 09:05:07	duy	2023-04-24 09:09:23

Product Code	Box QR	Qty	Delete
1 Q310-643740	Q310643740DZ97A1N0N5R001001005	100	[Delete]
2 Q310-643740	Q310643740DZ97A1N0N5T002001005	100	[Delete]
3 Q310-643740	Q310643740DZ97A1N0N61001001005		[Delete]

Product Code	Buyer QR	Qty
1 Q310-643740	Q310643740DZ97A1N0N5R006010100	100



Thank you for using

For Smart Factory

**MES** **3D**

ERP + **MES** + **SCADA**