

Teaching materials

Deliverable 1. Platform operation

MISCE project

Mechatronics for Improving and Standardizing Competences in Engineering



Competence: Automation Technology

Workgroup: University of Cagliari

University of Cassino and Southern Lazio



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Cofinanciado por
la Unión Europea

Mechatronics for Improving and Standardizing Competences in Engineering, MISCE
Competence: Automation Technology
Document: Deliverable 1. Platform operation

This document corresponds to the first deliverable for the competence “Automation Technology”
using the ‘Test-Bed_n.3’

Version: 3.0

Date: June 15th, 2025

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1 How to start

In order to connect the PC with the PLC (for the first time), please select the correct procedure:

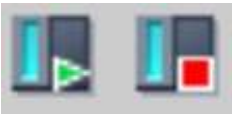
1. click on “Accessible devices”,  2. click “Download to Device”  3. Click “Start CPU” 	1. click on “Accessible devices”,  2. click “Download to Device”  3. Click “Start CPU” 	1. click on “Accessible devices”,  2. click “Download to Device”  3. Click “Start CPU” 
a)	b)	c)

Figure 1. Procedure to start the first time the PLC.

Please write here the correct answer: (a, b, c): _____

If the PC has been connected previously to the PLC, the procedure will be the same?

☐ Yes

☐ No

In both case, can you explain your answer?



2 Start the System from Web Server

In order to run “from web server” the automatic system, please select the correct button to press:

Click on “Start from HMI”. 	Click on “Start from HMI”. 	Click on “Start from HMI”. 
a)	b)	c)

Figure 3. Start from Web Server.

Please write here the correct answer: (a, b, c): _____

If we push all three button, the behaviour of the system will be the same?

☐ Yes

☐ No

In both case, can you justify your answer?



3 Changing of the parameters

In order to identify the specific sequence of the automatic system, please select the correct procedure:

- Click on 'F2' button. - Select the appropriate "Recipe", in order to define the sequence of the movement of the pneumatic cylinder. - Click "upload to PLC". - Click on "Start from HMI".  a)	- Click on "Start from HMI". - Click on 'F2' button. - Select the appropriate "Recipe", in order to define the sequence of the movement of the pneumatic cylinder. - Click "upload to PLC".  b)	- Click on 'F2' button. - Click on "Start from HMI". - Click "upload to PLC". - Select the appropriate "Recipe", in order to define the sequence of the movement of the pneumatic cylinder.  c)
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Figure 2. How to change the parameters .

Please write here the correct answer: (a, b, c): _____

If the PC has been connected previously to the PLC, the procedure will be the same?

☐ Yes

☐ No

In both case, can you explain your answer?



4 Changing of the parameters - selection of cycle

In order to identify the specific sequence of the automatic system with 8 phases, please select the correct procedure:

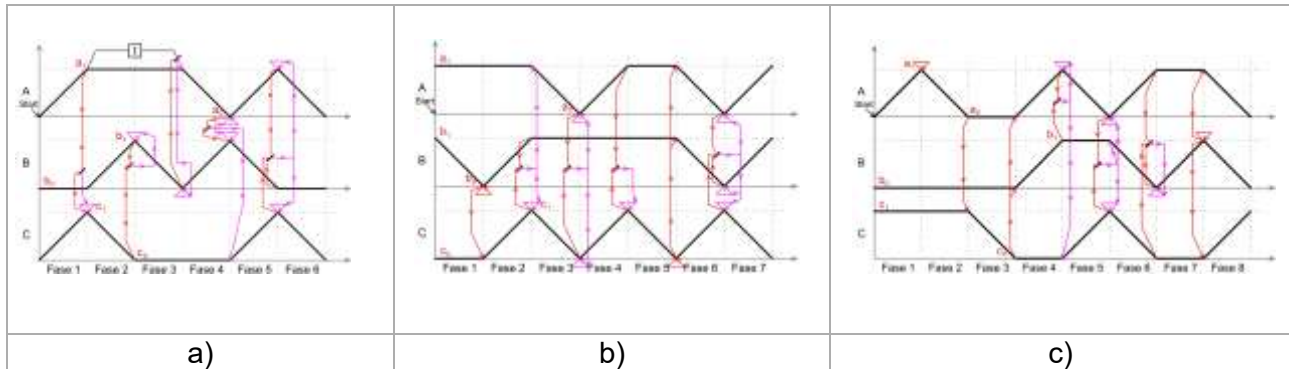


Figure 5. How to change the parameters .

Please write here the correct answer: (a, b, c): _____

If the we forgot to push the button “upload to PLC”, the system will work?

☐ Yes

☐ No

☐ Not possible to answer

In all cases, can you explain your answer?

If the we push the button “F3”, the system will work?

☐ Yes

☐ No

☐ Not possible to answer



5 Start the System from HMI

In order to run from “HMI” the automatic system, please select the correct button to press:

Click on “Start from HMI”.  a)	Click on “Start from HMI”.  b)	Click on “Start from HMI”.  c)
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Figure 4. Start from Web Server.

Please write here the correct answer: (a, b, c): _____

6 Start the System from Virtual HMI

In order to run from web server the specific sequence of the automatic system, please select the correct button to press:

Click on “Start from HMI”.  a)	Click on “Start from HMI”.  b)	Click on “Start from HMI”.  c)
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Figure 1. Start from Web Server.

Please write here the correct answer: (a, b, c): _____