

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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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.1’

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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:










<p>1. click on “Accessible devices”,</p>  <p>2. click “Download to Device”</p>  <p>3. Click “Start CPU”</p> 	<p>1. click on “Accessible devices”,</p>  <p>2. click “Download to Device”</p>  <p>3. Click “Start CPU”</p> 	<p>1. click on “Accessible devices”,</p>  <p>2. click “Download to Device”</p>  <p>3. Click “Start CPU”</p> 
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 Changing of the parameters

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




<ul style="list-style-type: none"> 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".  <p>a)</p>	<ul style="list-style-type: none"> 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".  <p>b)</p>	<ul style="list-style-type: none"> 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.  <p>c)</p>
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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?



3 Start the System from Web Server

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




<ul style="list-style-type: none">Click on “Start from HMI”. 	<ul style="list-style-type: none">Click on “Start from HMI”. 	<ul style="list-style-type: none">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?



4 Start the System from HMI

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




<ul style="list-style-type: none"> Click on “Start from HMI”. 	<ul style="list-style-type: none"> Click on “Start from HMI”. 	<ul style="list-style-type: none"> Click on “Start from HMI”. 
a)	b)	c)

Figure 4. Start from Web Server.

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

5 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:




<ul style="list-style-type: none"> Click on “Start from HMI”. 	<ul style="list-style-type: none"> Click on “Start from HMI”. 	<ul style="list-style-type: none"> Click on “Start from HMI”. 
a)	b)	c)

Figure 1. Start from Web Server.

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



6 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:

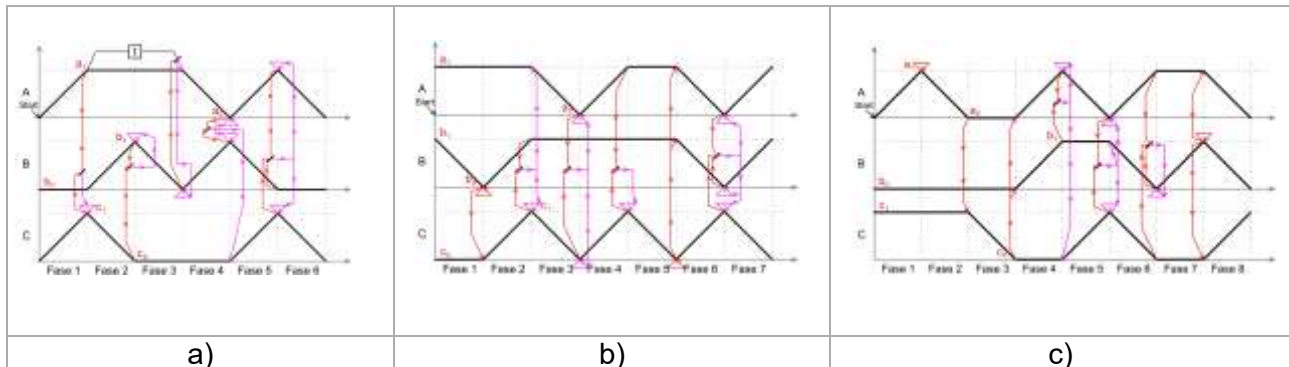


Figure 5. How to change the parameters .

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