

## PLC 210 Hands-On Assessments: Module 3

Student Name:	N#	Date:
This hands-on assessment requires t	hat each student successfully d	emonstrates each of these
tasks to the instructor's satisfaction.	There is no grade for this asso	essment.
Prior to taking this assessment, the	student must pass (minimum of	f 80%) the Knowledge and
Application Assessment.		
The student cannot proceed to the H	IOA for the next module witho	ut completing this HOA
Note: Be specific in answering ques	stions on the status of Dest and	array values.
Saying only that tags are a pa	rticular value is not a sufficient	answer.
Explain why the tags are of a	particular value	
Download the project file HOA_Mo	odule_3.ACD to the CompactL	ogix demo.
Ensure all demo inputs are OFF / Fa	alse – Selector Switches turned	to left.
Place processor in RUN mode		
1 At Rung 0 what is the v	value of tag30?	
	uction on Rung 0?	
Toggle SS7 at Rung 0 to		
What is the value of tag		
Toggle SS7 at Rung 0 to		
What is the value of tag		
Toggle SS7 at Rung 0 to		
What is the value of tag	_	
_	on Rung 0 True or False?	
_	Ton Rung of True of Taise:	
Explain		
2. At Rung 1, what is valu	e for tag10?	
What is value for tag11'	?	
What is value for tag12 <sup>c</sup>	?	
What is the output instru	uction on Rung 1?	
Toggle SS6 at Rung 0 to		
What is the decimal val	ue of tag12?	
Explain the Dest value b	pased on the Source and Mask	data:



	hat are the element (tag) values of the Dest array?
[0	, e
[1	
[2	
[3	]
[4	
[5	]
[6	]
[7	]
[8	]
[9	]
[1 [2	<u></u>
[3 [4 [5 [6 [7 [8	



[1]	
[2]	
[3]	
[4]	
[5]	
[6]	
[7]	
[8]	
[9]	
At Rung 3, Name of the Dest array?  At Rung 3, what are the element (tag) values o	f the Dest array?
[0]	
[1]	
[2]	
[3]	
[4]	
[5] [6]	
<u></u> [7]	
[0]	
[8]	
[2]	
What is the output instruction on Rung 3?	
What is Data Type tag2?	
What DINT tags are included with tag2?	
What BOOL tags are being used by the FAL in Hint: View right-side of the FAL instruction	
What is the Mode setting for the FAL instruction	
Explain the purpose of the Mode setting:	



	[0]
	[2]
	[3]
	[4]
	[5]
	[6]
	[7]
	[8] [9]
	[2]
Δ	At Rung 4, Name of the Dest array?
	At Rung 4, what are the element (tag) values of the Dest array?
	[0]
	[1]
	[2]
	[3]
	[4]
	[5]
	[6]
	[7]
	[8]
	[9]
N	Note: Monitor the FAL's instruction EN and DN bits as PB2 is being presse
	At Rung 3, press PB2 ten (10) times.
	When does the EN go True?
	When did the DN go True?
	What is the Position value when the DN bit goes True?
١	Explain why the DN bit change values:
	Explain why the DN bit change values:



[1]	
[2]	
[3]	
[4]	
[5]	
[6]	
[7]	
[0]	
[9]	
At Rung 3, what are	the element (tag) values of the Dest array?
[0]	,
[1]	
[2]	
[3]	
[4]	
[5]	
[6]	
[7]	
[8]	
[9]	
At Rung 3, explain	the values of the elements (tags) in the Dest array:
At Pung A what are	the element (tag) values of the Source array?
[0]	
Г13	
<u> </u>	
<del></del>	
[5]	
[6]	
[7]	
1 / 1	





[7]	
[9]	xplain the values of the elements (tags) in the Dest array:
[9]	xplain the values of the elements (tags) in the Dest array:
[9]	

To run through the HOA exercise again
Ensure all selector switches are OFF – turned to left
Toggle SS5 ON then OFF – turn to right then left.
Return to start of HOA



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