PLC210 Lab Exercise 11: Event Tasks

Upon completion of this lab, the student should be able to:

1. Explain various tasks found in the controller organizer window
2. Explain how to change the parameters for a continuous task
3. Explain how to create a new event task
4. Explain how to change the parameters for an event task
5. Explain how a Trigger Event Task instruction works.

Download the project Compact_Module_5_Ex2_Event_Task.ACD, go Online and put the CompactLogix into the Run mode to do the following lab.

The I/O tag names in this lab may need to be changed to match the addresses on your hardware trainer.

Figure 1. The EVENT instruction.

1. Monitor the MainRoutine
   Does SS6 turn ON PL0 on the demo board?_______________
   Is the logic running in the MainRoutine?_______________

2. What type of Task is the MainTask?______________

   Hint: Right Mouse Click on the Properties selection for MainTask.
Left Mouse Click on the Configuration tab

Figure 3. View Type information.
3. Ensure SS5 is turned to the left – OFF.

Monitor the R1 routine.

Toggle SS5 does PL7 change states?___________________
Is the logic in R1 being scanned?_______________

4. In the MainRoutine, toggle SS7 to the right – ON

   In the R1routine, toggle SS5 does PL7 change states?_______________
   Is the logic in R1 being scanned?_______________

   In the MainRoutine, toggle SS7 to the left – OFF
   In the R1routine, toggle SS5 does PL7 change states?_______________
   Is the logic in R1 being scanned?_______________

5. What type of Task is task1
   Hint: Right Mouse Click on the Properties selection for T1 task.

   Figure 6. Verify the Properties of MainTask.
Note: Icon for task1 task

Left Mouse Click on the Configuration tab

![Task Properties - MainTask](image)

Figure 7. Verify the Configuration of MainTask.

View Type information
What is the Type setting for the task1 task? ______________

What is the Trigger setting for the task1 task? ______________

Where is the EVENT instruction located in the project file? ______________

What are the other types of triggers? ______________

________________________
________________________
________________________

What is the range of the Priority setting? ______________
A task with a Priority setting of ______ will be the highest priority task.

6. Explain when the routines in an Event Tasks are scanned?

_______________________________________________________________________
_______________________________________________________________________
_______________________________________________________________________

DOL DISCLAIMER:

This product was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

This work is licensed under a Creative Commons Attribution 4.0 International License.