

K-01a

ELECTRICIAN TRAINING

TRAINER'S GUIDE

Duty K: PLC (Allen-Bradley)
K-01a: Connect and Operate Programmer

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Instructions To The Trainer

1. The Learner will contact you when ready to practice connecting and operating a programmer.
2. Be prepared to demonstrate the steps for this task.
3. Ask the Learner to contact the Evaluator when ready for the Skill Check.



Skill Objective

Upon determining a need to communicate with a PLC program, connect and operate the programmer.

Task Standards

1. The Learner establishes communication with the programmer when the PROGRAM DIRECTORY FOR PROCESSOR screen displays for the machine he or she needs to access.
2. Operation of the PLC results in accessing the screens that display the processor's functions.

What The Learner Will Need

This section contains the safety information, tools, and resources you will need before connecting and operating the programmer.



- Follow all Caterpillar Facility Safety Standards when performing this task in the plant.
- Use caution when working around the PLC; high voltage is present on the inside of the PLC cabinet door and near the I/O chassis.
- Be careful when working near moving or rotating machinery.
- Wear safety glasses and hearing protection in assembly and production areas.



- PC equipped with PLC software
- PLC
- Interconnect cable
- Processor Keyswitch Key (if the processor is not in the REM position)
- Password (if necessary)



- Allen-Bradley Installation Manual Publication 1785 - 6.6
- Allen-Bradley PLC-5 Programming Software 6200 - 6.4.6
- PLC Processor Manual Publication 1785 - 2.1



Practice Set-Up

The Learner may perform the following practice to help prepare for the Skill Check. Set up the practice for the Learner. Assist the Learner during the practice, if necessary; answer any questions concerning the task; and be prepared to demonstrate the task to the Learner. Make sure the Learner follows safe work practices while practicing the task.

Practice

Designate a location for the practice. The Learner may practice online.

Have the PLC-5 Programming Software screen displayed. Set up a situation which would require the Learner to use the DOS commands to enter the software. Change the address under PLC-5 to an address other than the one you have asked the Learner to connect to. The Learner will need to demonstrate changing the configuration.

After the Learner is online, ask him or her to display the screens that present the functions to allow:

- a rung to be changed.
- the memory to be restored.
- a file to be monitored.

Ask the Learner to demonstrate the safe work practices while performing this task.

Practice Objective

Communication must be established between the PC and the PLC. The Learner must use the programming software and function keys to demonstrate the ability to connect and operate the programmer.

Next Step

Allow the Learner to continue practicing and developing skills needed to demonstrate the task. The Learner should ask the Evaluator to schedule a Skill Check whenever he or she is ready to demonstrate the task unaided and meet all the task standards and safe work practices.