

K-01a

ELECTRICIAN TRAINING

SKILL CHECK GUIDE

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

Issued 01/01/98

Rationale

This Skill Development Guide provides the knowledge a Learner needs to connect and operate a programmer. The Learner must be able to select PLC stations linked to the Data Highway+ Network. Also, knowing how to navigate through the screens and access the program functions can contribute to minimizing downtime. In the event communication errors occur, the Learner must know how to recover from error messages.

Skill Check Set-Up

Select a PLC location for the Skill Check. Contact the Operator where the PLC is located to schedule a convenient time for the Skill Check. Change the online configuration address to an address other than the address of the PLC in the rack. Be prepared to ask the Learner to access the screens used for specific functions.

You must make available the tools, materials, and resources needed to demonstrate the task.

What The Learner Will Need

This section contains the safety information, tools, and resources the learner will need before connecting and operating a 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 Mode)
- 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



Skill Check

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

Needs
Mastered Practice

Safe Work Practices

- | | | |
|-------|-------|---|
| _____ | _____ | 1. Follow all Caterpillar Facility Safety Standards when performing this task in the plant. |
| _____ | _____ | 2. 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. |
| _____ | _____ | 3. Be careful when working near moving or rotating machinery. |
| _____ | _____ | 4. Wear safety glasses and hearing protection in assembly and production areas. |

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. |



Evaluator's Sign-Off

The Learner has demonstrated safe work practices and competent performance of the task.

Evaluator:

Date:

Learner:

Clock No:
