

# K-02a

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## ELECTRICIAN TRAINING

### SKILL CHECK GUIDE

Duty K: PLC (Allen-Bradley)

K-02a: Back Up Software

Issued 01/01/98

## **Rationale**

This Skill Development Guide provides the knowledge a Learner needs to back up the software. Programs are backed up as a routine operating procedure, when a change has been made to the program, or possibly after a power interruption. If a backup copy of a program is needed and not available, reprogramming may be required and would result in additional downtime.

## **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. Provide the Learner with a floppy disk to use for the Skill Check. Specify the program files to be backed up. Arrange for an offline PC to be available to check the floppy disk after the Learner has copied the file onto the disk.

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 you will need before backing up software.



- 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.
- Stay in full view of the area that the PLC station controls.
- Inform the Operators that the PLC-controlled machine will be down until you back up the software.



- PC equipped with PLC software
- PLC
- Offline PC equipped with Allen-Bradley PLC-5 software with offline capability
- Floppy disk(s)
- Interconnect cable
- Processor Keyswitch Key (if the processor is not in the REM position)
- Password (if necessary)



- Plant Engineering Standards
- Electrical Standards
- Safe Job Procedures



## Skill Check

After a power interruption, a program modification, or as a routine operating procedure, back up the software.

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.   |
| _____ | _____ | 5. Stay in full view of the area that the PLC station controls.   |
| _____ | _____ | 6. Inform the Operators that the PLC-controlled machine will be down until the Learner backs up the software.                       |

### Task Standards

- |       |       |  |
|-------|-------|--|
| _____ | _____ | 1. A backup copy of the file must exist on a floppy disk and/or hard drive.      |
| _____ | _____ | 2. After completing the backup, the Learner returns the machine to the RUN mode. |



## Evaluator's Sign-Off

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

Evaluator: \_\_\_\_\_ Date: \_\_\_\_\_

Learner: \_\_\_\_\_ Clock No: \_\_\_\_\_