

K-02a

ELECTRICIAN TRAINING

TRAINER'S GUIDE

Duty K: PLC (Allen-Bradley)

K-02a: Back Up Software

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Instructions To The Trainer

1. The Learner will contact you when ready to practice backing up software.
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

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

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



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 PLC location and a PC equipped with Allen-Bradley PLC-5 software with offline capability for the practice. The Learner should practice the task online. The Learner will need to use a PC equipped with Allen-Bradley PLC-5 software with offline capability to check the file size of the software backup copy. Notify personnel in the PLC area that you will be using the PLC temporarily for training.

Provide the Learner with a PC and a floppy disk. Ask the Learner to back up a specific program file(s) onto the floppy disk. Make sure the Learner notes the size of the file selected for backup. Verify that the Learner has backed up the file. After the software backup is complete, ask the Learner to load the floppy on an offline PC and compare the size of the backup file to the size of the file noted during the backup procedure. This will confirm that the Learner has copied the correct file.

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

Practice Objective

The Learner should copy the specified program file(s) to the correct destination drive. The Trainer must verify that the file is backed up on a floppy disk and/or hard drive. Using the PC equipped with Allen-Bradley software with offline capability, the Learner should compare the size of the backup copy to the size of the file that he or she copied at the PLC location. The Learner should demonstrate safe work practices.

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.