

Description of Supplementary Content

This content is for the text, *Allen-Bradley PLCs: An Emphasis on Design and Application*, 2nd Ed. by Kelvin T. Erickson, published in 2023 by Dogwood Valley Press LLC.

Sections:

1. PLC programs for chapter examples
2. PID tuning demonstrator program
3. Design documentation for the coal handler project in Chapter 15
4. Programming guides for the PLC processors

1. Chapter Example PLC Programs

The programs are arranged by PLC processor. The zip files for the various processor families and the software used to generate the programs are:

CLogix	ControlLogix (Studio 5000 Rev 34)
Micro800	Micro800 (Connected Components Workbench V13.0)
MLogix	MicroLogix (RSLogix 500 Rev 9)
SLC500	SLC-500 (RSLogix 500 Rev 9)

When the files in each downloaded zip file is extracted, the examples are organized by chapter. Each project has an associated pdf file to view a report/print-out/listing of the project, so one does not need the programming software to view the solution. For most of the pdf files, one will want to print it with the page scaling set to "Reduce to fit printer margins."

The project files for the processors may be viewed directly by the appropriate programming software by opening the project file:

ControlLogix (Studio 5000)	.acd file extension
Micro800 (CCW)	.ccwsln extension in project folder
Micrologix/SLC-500 (RSLogix 500)	.rss file extension

2. PID Tuner

The "PID_Tune.zip" file contains a PID tuning demonstrator program. Within the zip file, the "AAPIDTune_InstallNotes.pdf" contains the installation instructions.

3. Coal Handler Control System Documents

The files in "Coal_Handler.zip" document the coal handling system. Read the document "AADescription of Project Files.pdf" for more details on the coal handling system documentation.

4. Programming Guides for the PLC Processors

The following files are in "Programming_Guides.zip":

Lab1.pdf	Simple lab exercise. Using in conjunction with the files below.
CCW_Micro800.pdf	Allen-Bradley Connected Components Workbench Rev 13.0 for Micro800
RSLogix500_MicroLogix.pdf	Allen-Bradley RSLogix 500 Rev 9 for MicroLogix 1400
RSLogix500_SLC500.pdf	Allen-Bradley RSLogix 500 Rev 9 for SLC-5/05
Studio 5000.pdf	Rockwell Studio 5000 Rev 34 for ControlLogix