

Automation College

Workbook For:

Name: _____

Company:

Course Date: _____

Course Number: 428R320

Name _____

Date _____

428R320**PlantScape Controller Implementation****Course Description**

This five day course is designed to enable the student to configure and program the PlantScape Controller. The course has a real world context and all exercises are used to create a functional hybrid control application. In addition, it provides instruction on server ControlNet configuration and the use of Knowledge Builder.

Course Modules

Module Name	Module No.	Time (hrs)	Student Signoff	Manager Signoff
Course Description and Modules	M428R320	0	_____	_____
PlantScape Controller Implementation Bk1	428Book1	0	_____	_____
Introduction to PlantScape	428U1Intro	0	_____	_____
Navigating Knowledge Builder	428U1L1	0	_____	_____
Using Control Builder	428U1L2	0	_____	_____
Configuring Your Server	428U1L3	0	_____	_____
Unit 1 Exam	428U1tst	0	_____	_____
Use and Configuration of PlantScape Hardware	428U2Intro	0	_____	_____
PlantScape Hardware Configuration	428U2L1	0	_____	_____
Configuring a Control Processor Module (CPM)	428U2L2	0	_____	_____
Configuring Digital and Analog IOMs	428U2I3	0	_____	_____
PlantScape Ntools Familiarization	428U2L4	0	_____	_____
Unit 2 Exam	428U2tst	0	_____	_____
Introduction to Creating Control Modules	428U3Intro	0	_____	_____
Configuring a Continuous Control Strategy	428U3L1	0	_____	_____
Configuring the Heat Cascade	428U3L2	0	_____	_____
Loading, Activating, and Operating Control Modules	428U3L3	0	_____	_____
PlantScape DbAdmin Familiarization	428U3L4	0	_____	_____
Unit 3 Exam	428U3tst	0	_____	_____
Device Control CMs	428U4Intro	0	_____	_____
Configuring a 2-State Device Control CM	428U4L1	0	_____	_____
Configuring a 3-State Device Control CM	428U4L2	0	_____	_____
Control Module Skill Development	428U4L3	0	_____	_____
Unit 4 Exam	428U4tst	0	_____	_____
Creating Auxiliary CMs	428U5Intro	0	_____	_____
Configuring a Reg Control CM with Simulated I/O	428U5L1	0	_____	_____
Configuring a Flow Totalizer	428U5L2	0	_____	_____
Building Level Indicators	428U5L3	0	_____	_____
Building a Digital Input CM	428U5L4	0	_____	_____
Unit 5 Exam	428U5tst	0	_____	_____
Interlocks and Messages	428U6Intro	0	_____	_____
Configuring Operational Interlocks	428U6L1	0	_____	_____
Configuring Safety Override Interlocks	428U6L2	0	_____	_____
Manual Operation	428U6L3	0	_____	_____
Configuring Message Blocks	428U6L4	0	_____	_____
Unit 6 Exam	428U6tst	0	_____	_____
Book 1 Appendix: CM Solutions	428BK1Appnd	0	_____	_____
PlantScape Controller Implementation Bk2	428Book2	0	_____	_____
Introduction to Sequential Control Modules	428U7Intro	0	_____	_____
Understanding Sequential Control Modules	428U7L1	0	_____	_____
Configuring Sequential Control Strategies	428U7L2	0	_____	_____
Operating Sequential Control Strategies	428U7L3	0	_____	_____
Unit 7 Exam	428U7tst	0	_____	_____

SCM Functionality	428U8Intro	0		
Creating a Transfer SCM (SCM_XFERA)	428U8L1	0		
Using Confirm Messages in SCMs	428U8L2	0		
Creating A Supervisory SCM (SCM_REACTR)	428U8L3	0		
Capturing History Values	428U8L4	0		
Creating Handlers	428U8L5	0		
Creating a Common SCM (SCM_XFER)	428U8L6	0		
Unit 8 Exam	428U8tst	0		
Import/Export Introduction	428U9Intro	0		
Import/Export	428U9L1	0		
Appendix Book 2: Groups	428BK2Appnd	0		
PlantScape Controller Implementation Bk3	428Book3	0		
Process Description	428ProcessIntro	0		
PlantScape Architecture	428U1L1-D	0		
CM and SCM Library	428U1L2-D	0		
Control Builder	428U1L3-D	0		
Knowledge Builder and On-Line Help	428U1L4-D	0		
Operator Interface	428U1L5-D	0		
Control Builder Navigation	428U2L1-D	0		
Controller Configuration	428U2L2-D	0		
I/O Module Configuration	428U2L3-D	0		
Ntools	428U2L4-D	0		
Control Modules (CMs)	428U3L1-D	0		
Control Strategy Execution	428U3L2-D	0		
Configuring a Device Control Block	428U3L3-D	0		
Database Administration (DBAdmin)	428U3L4-D	0		
Sequential Control Modules	428U4L1-D	0		
428 Additional Topics	428U5L1-D	0		
Criterion Test Answer Key	TstAnsrscvr	0		
Unit 1 Exam Answers	428U1ans	0		
Unit 2 Exam Answers	428U2ans	0		
Unit 3 Exam Answers	428U3ans	0		
Unit 4 Exam Answers	428U4ans	0		
Unit 5 Exam Answers	428U5ans	0		
Unit 6 Exam Answers	428U6ans	0		
Unit 7 Exam Answers	428U7ans	0		
Unit 8 Exam Answers	428U8ans	0		

+ Course manager approved equipment required.

* Optional - check with your course manager.

