

2025 - 2026 4th Year Syllabus and Schedule

Test Date:	10/6/2025	Motor Control		Level	I	Test Grade:
Syllabus	Title	Book Name	Chapter	Lesson/Lab #	Date	Due Date
1	Introduction to Magnetic Motor Control	Fundamentals of Motor Control	1	Lesson 1	9/3/2025	9/8/2025
2	Manual Pilot Devices	Fundamentals of Motor Control	2	Lesson 2	9/8/2025	9/10/2025
3	Automatic Pilot Devices	Fundamentals of Motor Control	3	Lesson 3	9/10/2025	9/15/2025
4	Magnetic Control Relays	Fundamentals of Motor Control	4	Lesson 4	9/15/2025	9/17/2025
5	Control Transformers	Fundamentals of Motor Control	5	Lesson 5	9/17/2025	9/22/2025
6	Magnetic Contactors	Fundamentals of Motor Control	6	Lesson 6	9/22/2025	9/24/2025
7	Basic Motor Starters	Fundamentals of Motor Control	6 & 8	Lesson 7	9/24/2025	9/29/2025
8	Basic Timers	Fundamentals of Motor Control	7	Lesson 8	9/29/2025	10/1/2025
9	Control Diagrams and Drawings	Fundamentals of Motor Control	8	Lesson 9	10/1/2025	10/6/2025

Test Date:	11/10/2025	Motor Control		Level	II	Test Grade:
Syllabus	Title	Book Name	Chapter	Lesson/Lab #	Date	Due Date
10	Basic Electronics for Motor Control Devices	Fundamentals of Motor Control	9	Lesson 1	10/8/2025	10/13/2025
11	More Electronics for Motor Control Devices	Fundamentals of Motor Control	9	Lesson 2	10/13/2025	10/15/2025
12	Solid-State Motor Control Pilot Devices	Fundamentals of Motor Control	10	Lesson 3	10/15/2025	10/20/2025
13	Solid-State Relays	Fundamentals of Motor Control	11	Lesson 4	10/20/2025	10/22/2025
14	Motor Control Centers	Fundamentals of Motor Control	12	Lesson 5	10/22/2025	10/27/2025
15	Special Purpose Starters	Fundamentals of Motor Control	12	Lesson 6	10/27/2025	10/29/2025
16	Electronic Programmable Timers	Fundamentals of Motor Control	13	Lesson 7	10/29/2025	11/3/2025
17	Special Control Components	Fundamentals of Motor Control	14	Lesson 8	11/3/2025	11/5/2025
18	AC Motor Speed Control	Fundamentals of Motor Control	15	Lesson 9	11/5/2025	11/10/2025

Test Date:	12/1/2025	Torque		Level	I	Test Grade:
Syllabus	Title	Book Name	Chapter	Lesson/Lab #	Date	Due Date
19	Torque Theory	Torque	CW	Lesson 1	11/28/2025	12/1/2025
20	Threaded Fasteners Basics	Torque	CW	Lesson 2	11/28/2025	12/1/2025
21	Introduction to Torque Applications	Torque	CW	Lesson 3	11/28/2025	12/1/2025
22	Torque Products	Torque	CW	Lesson 4	11/28/2025	12/1/2025
23	Real World Electrical Torque Applications	Torque	CW	Lesson 5	11/28/2025	12/1/2025

**** Gray Area - Complete during Thanksgiving Break**

Test Date:	12/17/2025	Motor Control		Level	III	Test Grade:
Syllabus	Title	Book Name	Chapter	Lesson/Lab #	Date	Due Date
24	DC Motor Control	Fundamentals of Motor Control	16	Lesson 1	11/12/2025	11/17/2025
25	Understanding Analog Signals	Fundamentals of Motor Control	17	Lesson 2	11/17/2025	11/19/2025
26	Analog Pilot Devices	Fundamentals of Motor Control	18	Lesson 3	11/19/2025	12/1/2025
Thanksgiving (Complete Torque Lessons 1 - 5)					11/24/2025 - 11/27/2025	
27	Working With Solid-State Devices in Motor Control	Fundamentals of Motor Control	19	Lesson 4	12/1/2025	12/3/2025
28	Variable Frequency Drives	Fundamentals of Motor Control	20	Lesson 5	12/3/2025	12/8/2025
29	Programmable Logic Controllers	Fundamentals of Motor Control	21	Lesson 6	12/8/2025	12/10/2025
30	Controlling Synchronous, Stepper, and Servo Motors	Fundamentals of Motor Control	22	Lesson 7	12/10/2025	12/15/2025
31	Networked Motor Control	Fundamentals of Motor Control	23	Lesson 8	12/15/2025	12/15/2025
32	Troubleshooting Electrical Systems	Fundamentals of Motor Control	24	Lesson 9	12/15/2025	12/17/2025

Test Date:	1/5/2026	Code, Standards, and Practices 5		Level	I	Test Grade:
Syllabus	Title	Book Name		Lesson/Lab #	Date	Due Date
33	Installing Electrical Services	National Electric Code 2020		Lesson 1	12/22/2025	1/5/2026
34	Swimming Pools, Fountains, and Similar Instal	National Electric Code 2020		Lesson 2	12/22/2025	1/5/2026
35	Understanding Emergency and Standby System	National Electric Code 2020		Lesson 3	12/22/2025	1/5/2026
36	Over 1000 volt installations	National Electric Code 2020		Lesson 4	12/22/2025	1/5/2026
37	Remote-Control, Signaling, and Power-Limited Circuits	National Electric Code 2020		Lesson 5	12/22/2025	1/5/2026
38	2017 NEC Changes - Part 1	National Electric Code 2020		Lesson 6	12/22/2025	1/5/2026
39	2017 NEC Changes - Part 2	National Electric Code 2020		Lesson 7	12/22/2025	1/5/2026

**** Complete During Winter Break**

AOTY						3/7/2026
Break (3/9/25 - 3/13/25)						
Test Date:	3/2/2026	PLC		Level	I	Test Grade:
Syllabus	Title	Book Name	Chapter	Lesson/Lab #	Date	Due Date
40	PLC and Electrical Safety	PLC's (S631)	1	Lesson 1	1/7/2026	1/12/2026
41	PLC Electrical Principles, Ratings, and Circuit Calculations	PLC's (S631)	2	Lesson 2	1/12/2026	1/12/2026
42	PLC Programming Symbols, Diagrams, and Logic Functions	PLC's (S631)	3	Lesson 3	1/12/2026	1/19/2026
43	PLC Hardware, Memory, and Operating Cycle	PLC's (S631)	4	Lesson 4	1/19/2026	1/26/2026
44	PLC Systems, Circuits, and Interface Devices	PLC's (S631)	5	Lesson 5	1/26/2026	2/2/2026
45	PLC Programming Diagrams, Addresses, and Bit Instructions	PLC's (S631)	6	Lesson 6	2/2/2026	2/4/2026
46	PLC Programming Timer and Counter Instructions PLC's	PLC's (S631)	7	Lesson 7	2/4/2026	2/9/2026
47	PLC analog Device Installation, Programming, and Troubleshooting	PLC's (S631)	8	Lesson 8	2/9/2026	2/11/2026
48	PLC Installations and Startup	PLC's (S631)	9	Lesson 9	2/11/2026	2/16/2026
49	Troubleshooting Methods and Test Instrument Operation	PLC's (S631)	10	Lesson 10	2/16/2026	2/18/2026
50	Testing and Troubleshooting Electrical Devices and PLC Hardware	PLC's (S631)	11	Lesson 11	2/18/2026	2/23/2026
51	Troubleshooting with PLC Software	PLC's (S631)	12	Lesson 12	2/23/2026	2/25/2026
52	PLC System Maintenance	PLC's (S631)	13	Lesson 13	2/25/2026	3/2/2026