

Syllabus 3rd Year 2024-2025

Test Date:	9/12/2024	Instrumentation Introduction	Level	I	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
1	Math Pre-Test Assesment, Math	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 1, 2	08/20/24	08/25/24
2	Science Pre-Test Assesment, Science	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 3, 4	08/22/24	08/25/24
3	Electrical Theory Pre-Test Assesment, Electrical Theory	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 5, 6	08/27/24	09/01/24
4	Meters and Measurements Pre-Test Assesment, Meters and Measurements	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 7, 8	08/29/24	09/01/24
Labor Day Observed 9/2/2024					
Mandatory meeting at the Union Hall at 6:00PM 9/3/2023					
5	Instrumentation Vocabulary Pre-Test Assesment, Instrumentation Vocabulary	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 9, 10	09/05/24	09/08/24
6	Process and Instrumentation Diagram Interpretation Pre-Test Assesment, Process and Instrumentation Diagram Interpretation	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 11, 12	09/10/24	09/15/24
Test Date:	10/22/2024	Instrumentation Introduction	Level	II	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
7	Review	Applied Science of Instrumentation (S600)	Lesson 1	09/12/24	09/15/24
8	Introduction to Instrumentation	Applied Science of Instrumentation (S600)	Lesson 2	09/17/24	09/22/24
9	Fundamentals of Process and Control Systems	Applied Science of Instrumentation (S600)	Lesson 3	09/19/24	09/22/24
10	Instrumentation Symbols and Diagrams	Applied Science of Instrumentation (S600)	Lesson 4	09/24/24	09/29/24
11	Calibration Procedure and Documentation	Applied Science of Instrumentation (S600)	Lesson 5	09/26/24	09/29/24
12	Principles of Pressure	Applied Science of Instrumentation (S600)	Lesson 6	10/01/24	10/06/24
13	Principles of Level	Applied Science of Instrumentation (S600)	Lesson 7	10/03/24	10/06/24
14	Principles of Flow	Applied Science of Instrumentation (S600)	Lesson 8	10/08/24	10/13/24
15	Principles of Temperature	Applied Science of Instrumentation (S600)	Lesson 9	10/10/24	10/13/24
16	Principles of Smart Instrumentation and Communication	Applied Science of Instrumentation (S600)	Lesson 10	10/15/24	10/20/24
17	Control Valves, Actuators, and Accessories	Applied Science of Instrumentation (S600)	Lesson 11	10/17/24	10/20/24
Test Date:	11/7/2024	Instrument Introduction	Level	III	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
18	Review	Applied Science of Instrumentation (S600)	Lesson 1	10/22/24	10/27/24
19	Analytical Measurement	Applied Science of Instrumentation (S600)	Lesson 2	10/24/24	10/27/24
20	Process Controllers	Applied Science of Instrumentation (S600)	Lesson 3	10/29/24	11/03/24
21	Fundamentals of Control	Applied Science of Instrumentation (S600)	Lesson 4	10/31/24	11/03/24
22	Installation of Control Systems	Applied Science of Instrumentation (S600)	Lesson 5	11/05/24	11/07/24
Test Date:	12/19/2024	Motors for Electricians - CML	Level	I	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
23	Magnetism and Induction Review	Motors (S649)	Lesson 1	11/07/24	11/10/24
24	Motor Nameplate, AC Alternators	Motors (S649)	Lesson 2, 3	11/12/24	11/17/24
25	Three-Phase Motors	Motors (S649)	Lesson 4	11/14/24	11/17/24
26	Motor Types	Motors (S649)	Lesson 5	11/19/24	11/24/24
27	Single-Phase Motors	Motors (S649)	Lesson 6	11/21/24	11/24/24
28	Motor Protection	Motors (S649)	Lesson 7	11/26/24	12/01/24
Thanksgiving Day 11/28/2023					
29	DC Motors and Generators	Motors (S649)	Lesson 8	12/03/24	12/08/24
30	Starting and Stopping Motors	Motors (S649)	Lesson 9	12/05/24	12/08/24
29	Motor Alignment	Motors (S649)	Lesson 10	12/10/24	12/15/24
30	Troubleshooting Motors	Motors (S649)	Lesson 11	12/12/24	12/15/24
31	Resources, Support - Labs	Motors (S649)	Lesson 12, 13	12/17/24	12/19/24
Test Date	1/16/2025	Test Instruments	Level	I	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
33	Voice-Data-Video (VDV) Test Instruments, Power Quality Test Instruments	Test Instruments and Applications (S571)	Lesson 1, 2	12/19/24	01/05/25
Winter Break 12/23/2024 - 01/05/2025					
34	Medium (and High) Voltage and Insulation Test Instruments	Test Instruments and Applications (S571)	Lesson 3	01/07/25	01/12/25
35	Instrumentation and Process Control Test Instruments	Test Instruments and Applications (S571)	Lesson 4	01/09/25	01/12/25
36	Special Maintenance Test Instruments, Troubleshooting	Test Instruments and Applications (S571)	Lesson 5, 6	01/14/25	01/16/25