

Cleveland Institute of Electronics, Inc.

1776 East 17th Street • Cleveland, Ohio 44114 • (216) 781-9400 • www.cie-wc.edu

"Electronics Education of Tomorrow"

ENROLLMENT CONFIRMATION FORM

This document confirms that you are enrolled in the following CIE Course:

5 Industrial Electronics with PLC Technology

Your student number consists of two or three introductory letters and ten digits. You should use it on everything you send to the school. The first line is your CIE Student Number.

STUDENT NUMBER

Check your name and address as recorded above. Please notify us of any corrections.

The Progress Record form enclosed lists the order of study for your course. Be sure you are studying lessons in the correct order.

TAKING YOUR FIRST EXAMINATION

Create an E-Grade account at www.study-electronics.com

You can take all your exams on-line whenever you want. Simply follow the instructions listed on our e-grade site and your graded exam will be e-mailed back to you once your test has been processed. (Normally 24 hours.) To take advantage of this option visit www.study-electronics.com today!

Some students study at a fast pace and send us several examinations at a time. That's fine! Others study at a moderate pace. If you are one of these, you may wish to send each examination to us when you finish it. Whether you study at a fast or moderate pace, if you send your examinations to us on a regular basis it will keep you involved with your course and in active contact with our Instruction Department. (If you have any questions or comments for your instructors, include these too.)

When you receive back your graded examination, enter your grade and date of examination on the progress record form.

Progress Record

Study your lessons in the order listed below. As graded examinations are returned to you, enter your grade in the space below. Set a schedule for yourself then watch your progress.

Course 5 (L) – Industrial Electronics with PLC Technology

Number of Lessons: 78. Completion Time: 18 months.

Seq.	Lesson #	Lesson Title	Date	Grade
1	2330A	Current and Voltage		
2	2330B	Controlling Current and Voltage		
3	2333A	Power Distribution		
4	2333B	Portable Extension Cords		
5	2336A	Static Electricity		
6	2336B	Electric Currents and Semiconductor Devices		
7	2101A	Fractions and Decimal Numbers		
8	2101B	Reciprocals, Percentage & Powers of Numbers		
9	2339A	3 Basics of Electric Circuits: Voltage, Current & Resistance		
10	2339B	Ohm's Law, Conductors, and Insulators		
11	2342A	Connecting and Tracing Battery Circuits		
12	2342B	Identifying Components		
13	2342C	Tracing Wiring on Printed Circuit Boards		
14	2102A	Roots of Numbers, Ratio, and Proportion		
15	2102B	Inverse Proportion and Negative Numbers		
16	2323A	Parallel Circuits		
17	2323B	Equivalent Circuits		
18	2323C	Applications of Kirchhoff's Law		
19	2324A	Series-Parallel Circuits		
20	2324B	Voltage and Power		
21	2511A	Vital Statistics of AC Circuits		
22	2511B	Magnetism and Magnetic Circuits		
23	2511C	Induced Voltage and Current		
24	2313A	Thinking Circuits and Automatic Switches		
25	2313B	Relays and Robots		
26	2103A	Scientific Notation		
27	2103B	Units of Measure		

Seq.	Lesson #	Lesson Title	Date	Grade
28	2304A	Inductance		
29	2304B	Mutual Inductance & Magnetic Coupling		
30	2304C	Transformers		
31	2512A	Electrical Charges and Capacitance		
32	2512B	Capacitors in Action		
33	2403A	Rectifiers and Amplifiers		
34	2403B	Transistors and FET Amplifiers		
35	2104A	Reading and Using Graphs		
36	2104B	Phasors and Formulas		
37	2314	Simplifying Circuit Analysis by using Kirchoff's Laws		
38	2315	Currents and Voltages in AC Circuits		
39	2316	Resonant Circuits		
40	2401	Using Semiconductor Diodes		
41	2402	Operation of Semiconductor Devices		
42	2503	Unregulated Power Supplies		
43	2404	Operation of Tubes and Transistors		
44	2405	Amplifiers		
45	2412	How to Work with Transistors		
46	2601	Audio Amplifiers and Equipment		
47	2406	Radio Frequency Amplifiers		
48	2407	Oscillators		
49	2431	Operational Amplifiers		
50	2201	Measuring Instruments		
51	2202	Understanding and Using the Oscilloscope		
52	3610	Regulated Power Supplies		
53	2607	Systematic Troubleshooting		
54	3471	Industrial Control Overview		
55	3472	Methods and Operation of the Controller		
56	3473	DC Motors and Drives		
57	3474	AC Motors and Drives		
58	3475	Servo Motors and Servomechanisms		
59	3476	Pressure Systems and Temperature Control		
60	3477	Flow Control and Level Control Systems		
61	3478	Analytical and Industrial Instrumentation		
62	3479	Detection Sensors		

