

PROGRESS RECORD

Study your lessons in the order listed below.

Electronics Technology and Advanced Troubleshooting I & II

Number of Lessons: 118

Completion Time: 36 months

- 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 and Powers of Numbers
- 9 2339A The Three Basics of Electric Circuits: Voltage, Current, and 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
28	2304A Inductance
29	2304B Mutual Inductance and Magnetic Coupling
30	2304C Transformers
31	2512A Electrical Charges and Capacitance
32	2512B Capacitors in Action
33	2403A Rectifiers and Amplifiers
34	2403B Transistor and FET Amplifiers
35	2104A Reading and Using Graphs
36	2104B Phasors and Formulas
37	1402 Reliable Soldering Techniques
38	1404 Working with Printed Circuit Boards
39	1406 Building a Siren with Flashing Light
40	1408 Using your Multimeter to Measure Resistance
41	1410 Your Personal Training Laboratory
42	1412 Series and Parallel Resistor Circuits
43	1414 Power and DC Circuits
44	2314 Simplifying Circuit Analysis by Using Kirchhoff's Laws
45	1416 Practical Applications of Kirchhoff's Laws
46	2315 Currents and Voltages in A-C Circuits
47	1418 Capacitors and Capacitive Circuits
48	2316 Resonant Circuits
49	1420 Inductors and Inductive Circuits
50	1422 Resonance and Filters
51	2401 Using Semiconductor Diodes
52	2402 Operation of Semiconductor Devices
53	1424 Working with Semiconductor Diodes

54 2503 Unregulated Power Supplies

55 2404 Operation of Tubes and Transistors

56 2405 Amplifier Circuitry

57 1426 Fundamentals of Transformers

58 1428 Unregulated Power Supply Characteristics

59 2412 How to Work with Transistors

60 1430 Transistors, Part I

61 1432 Common-Emitter Amplifier Characteristics

62 1434 Transistors, Part II

63 2601 Audio Amplifiers and Equipment

* 2431 Operational Amplifiers

64 1436 Operational Amplifiers Characteristics

65 1438 Silicon-Controlled Rectifiers and Unijunction Transistors: Theory and Applications

66 3610 Regulated Power Supplies

67 1440 Regulated Power Supply Characteristics

68 1442 Working with FET's

69 2406 Radio Frequency Amplifiers

70 2407 Oscillators

71 1444 Sinusoidal Oscillators

72 2201 Measuring and Measuring Instruments

73 1446 Measurement Techniques Laboratory

74 3342 Circuit response to Non-Sinusoidal Waveforms

75 1448 Time Constants

76 1450 RC Filter Circuits

77 2202 Understanding & Using the Oscilloscope

78 1452 Optoelectronics

79 3463 Digital Switching Units

80 3104 Binary Coding & Computer Arithmetic

81 3464 Logic Circuit Tracing by Using Boolean Algebra

82 3466 Digital IC Families w/ Practical Operating Requir.

83 3343 Clippers, Clampers and Binaries

84 3465 Pulse Processing Circuits

85 1454 Multivibrators

86 3467 Important Digital Integrated Circuits

87 1456 555 Timing Circuits

88 3468 Digital Systems & How to Troubleshoot Them

89 1458 Electromagnetism and Relays

90 2607 Systematic Troubleshooting

91 1260 Basic Gates

92 1262 Practical Digital Circuits

93 1264 Sequential Logic Circuits

94 4250 Safety

95 4252 Introduction to TV

96 4254 The Television System-Functional Block Diagram

97 4256 Television Troubleshooting Techniques

98 4258 Power Supplies

99 4260 Horizontal Circuits

100 4262 High-Voltage Circuits

101 4264 Vertical Circuits

102 4266 Tuners

103 4268 Intermediate Frequency Amplifiers

104 4270 Video Circuits and the CRT

105 4272 AGC Circuits

106 4274 Synchronization Circuits

107 4276 Introduction to Color Television

108 4278 Color Circuits

- 109 4280 Color Symptom Troubleshooting
- 110 4282 Color TV Setup
- 111 4284 Sound Circuits
- 112 2608 Advanced Troubleshooting Techniques
- 113 4765 Interpreting Oscilloscope Waveforms
- 114 4775 Understanding the Operation of Your Color Bar Generator
- 115 4785 TV and Oscilloscope Adjustments
- 116 4786 Interpreting Practical Waveforms
- 117 4787 Modern Equipment Construction
- 118 4789 Advanced Troubleshooting of Modern Circuitry

* Proctored Examination 3720
3700 Associate-Level CET Study Guide

* Optional lesson, not required for graduation.

** Optional lesson, not required for graduation and not graded.