

## **PROGRESS RECORD**

Study your lessons in the order listed below.

Number of Lessons:155

#14B (P) Electronics Technology with Digital and Microprocessor Laboratory  
Completion Time: 42 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

64 2431 Operational Amplifiers

65 1436 Operational Amplifiers Characteristics

66 1438 Silicon-Controlled Rectifiers and Unijunction  
Transistors: Theory and Applications

67 3610 Regulated Power Supplies

68 1440 Regulated Power Supply Characteristics

69 1442 Working with FET's

70 2406 Radio Frequency Amplifiers

71 2407 Oscillators

72 1444 Sinusoidal Oscillators

73 2201 Measuring and Measuring Instruments

74 1446 Measurement Techniques Laboratory

75 3342 Circuit response to Non-Sinusoidal Waveforms

76 1448 Time Constants

77 1450 RC Filter Circuits

78 2202 Understanding & Using the Oscilloscope

79 1452 Optoelectronics

80 3463 Digital Switching Units

81 3104 Binary Coding & Computer Arithmetic

82 3464 Logic Circuit Tracing by Using Boolean Algebra  
83 3466 Digital IC Families w/ Practical Operating Requir.  
84 3343 Clippers, Clampers and Binaries  
85 3465 Pulse Processing Circuits  
86 1454 Multivibrators  
87 3467 Important Digital Integrated Circuits  
88 1456 555 Timing Circuits  
89 3468 Digital Systems & How to Troubleshoot Them  
90 1458 Electromagnetism and Relays  
91 2607 Systematic Troubleshooting  
92 1260 Basic Gates  
93 1262 Practical Digital Circuits  
94 1264 Sequential Logic Circuits  
95 4250 Safety  
96 4252 Introduction to TV  
97 4254 The Television System-Functional Block Diagram  
98 4256 Television Troubleshooting Techniques  
99 4258 Power Supplies  
100 4260 Horizontal Circuits  
101 4262 High-Voltage Circuits  
102 4264 Vertical Circuits  
103 4266 Tuners  
104 4268 Intermediate Frequency Amplifiers  
105 4270 Video Circuits and the CRT  
106 4272 AGC Circuits  
107 4274 Synchronization Circuits  
108 4276 Introduction to Color Television  
109 4278 Color Circuits  
110 4280 Color Symptom Troubleshooting

111	4282	Color TV Setup
112	4284	Sound Circuits
113	2608	Advanced Troubleshooting Techniques
114	5510	Introduction to Digital Electronics
115	5512	Number Systems
116	5514	Fundamentals of Boolean Algebra
117	5516	Karnaugh Maps
118	5518	NOR and NAND Gate Circuits
119	5520	Discrete Logic Gates
120	5522	Digital Integrated Circuits
121	5524	Digital Flip-Flops
122	5526	One-Shots, Astables, and Schmitt Triggers
123	5528	Counter Design
124	5530	Modulus Counters
125	5532	Shift Registers and Counters
126	5534	Binary Codes and Converters
127	5536	Multiplexers - Demultiplexers
128	5538	CMOS Digital Logic
129	5540	Digital Interfacing
130	5542	ROMs, PROMs and PLAs
131	5544	Introduction to Computers & Microprocessors
132	5345	Oscilloscope Measurements
133	5346	Oscilloscope Triggering
134	5347	Oscilloscope Analysis of Analog & Digital Circuits
135	5376	Registers
136	5378	Arithmetic Logic Units
137	5380	Timing And Control
138	5382	Memory Units
139	6602	Introduction to Computer Hardware

140 6604 Introduction to Computer Software  
141 6606 Computer Arithmetic  
142 6608 68HC11 Programming - Part A  
143 6610 68HC11 Programming - Part B  
144 6612 Branching and Loops  
145 6614 Indexing through Memory  
146 6616 Subroutines  
147 6618 Reading Assembly Listings  
148 6620 Memory Systems I  
149 6622 Memory Systems II  
150 6624 General Purpose I/O  
151 6626 HC11 Interrupts and Resets  
152 6628 Analog Capture - Port E  
153 6630 Timed Events - Port A  
154 6632 Serial Communication - Port D  
155 6634 C Programming and the HC11  
3700 Associate-Level CET Study Guide  
\* 3760 Supervised Examination