

ISCET REFERENCE & LEARNING MATERIALS



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____ “We Employ CETs” Decal (Free to all certified CETs, one per technician)

ASSOCIATE STUDY GUIDES

____ **035 Study Guide & Practice Test for the ISCET Associate Level Examination**\$19.95

The areas covered are: Basic Math, DC Circuits, AC Circuits, Transistors and Semiconductors, Components and Circuits, Instruments, Tests and Measurements, and Troubleshooting.

____ **148 Associate Practice Test**.....\$5.00

75 example test questions for the for the Associate CET exam with multiple choice questions and answers.

____ **034 Associate CET Study Guide**.....\$16.95

By Joe Risse CET

Expanded 96-page guide for the Associate CET exam. Covers basic math, AC/DC circuits, semiconductors, components and circuits, digital circuits, and test instruments.

____ **039 The CET Study Guide**\$28.00

By Joe Risse CET and Sam Wilson CET

An overall review of basic electronics including basic math, AC/DC circuits, components, etc. Satisfies requirements for technicians taking both Associate and Consumer CET exams. Endorsement. Covers basic electronics plus consumer electronics including digital circuits, linear circuits, televisions, VCRs, and test equipment.

____ **175 Computerized Associate Practice Test & Study Guide - In Disc**.....\$47.95

Software program featuring 300 sample questions for the Associate CET exam. Each problem has a short explanation of how the problem is solved.

W95 thru Vista version requires monitor set to 800x600, color density of 256 colors, & 2.4 MB of disk space. Offered in CD-ROM Format.

____ **185 (LC-185-1) Associate Electronics Online Learning Course, Part1**,.....\$49.95

The Associate Electronics Learning Course, Part 1 (LC-185-1), a web-based learning course designed to be a self-study electronics in DC electronics, is now available. This course is desined to be a self study course in DC electronics, as well as study material for the DC electronics portion of the ISCET Associate Level CET (Certified Electronics Technician). It is an excellent presentation of learning material covering basic DC electronics, with 14 modules including “Atoms & Electronics,” “Voltage-Current Resistance,” “Ohm’s Law,” “Circuits,” “Capacitors & Inductors” to name just a few. Presented through ISCET Online Learning over the internet. Available to you for 150 days 24 hours per day, 7 days per week (24/7).**Price: \$49.95 for 150 days access online. Printed material not avialable.**

ASSOCIATE STUDY GUIDES (CONT.)

____ **229 (LC-T-229) CET Prep Course -- w/CD Study Material and Voucher**.....\$182.90

This course is designed to prepare those person that already posses the electornic theory knowledge and/or experience in the electronics industry that would qualify them to take the ISCET Associate CET Exam. The course is delivered to you via the Internet...and can be accessed on you computer for 24 hours a day, 7 days a week. You have access to the course for 150 days on any computer with access to the internet and speeds better than stander dial-up. Each registrant will receive a CD containing a study guide and practice test that contains 300-questions databse with practice test using randomly selected questions in examination format. Each wrong answer is rationalized to show correct answers. Registrants will also receive a voucher that will allow him to take the ISCET Associate CET examination using any approve ISCET Certification Administrator (CA) or Proctor.

ELECTRONIC SYSTEMS ASSOCIATE (ESA) STUDY GUIDES

____ **235 ESA-1, DC Electornics Self Study (ESA-1-LC-235)**.....\$49.95

Learn electronics tailored to your schedule. Self study course allow you to access the material on the internet 24/7...study at a time avaiable for you any time. Course available for 150 days, with extensions available for small additional charge. Question during your study? Within each module is the ability to send an e-mail to ISCET asking any questions concerning the study material...answers is provided within 48 hours (holidays and weekends excepted) at no additional cost.

____ **235 ESA-1, DC Electornics Self Study on Disc (ESA-1-LC-D-235)**\$69.95

Same material information as the item above. This self study is delivered on a CD which will load onto your computer and run at you call, or you can run the disc from you CD Drive without loading anything on you computer.

____ **236 ESA-2, AC Electornics Self Study (ESA-2-LC-236)**.....\$49.95

Learn electronics tailored to your schedule. Self study course allow you to access the material on the internet 24/7...study at a time avaiable for you any time. Course available for 150 days, with extensions available for small additional charge. Question during your study? Within each module is the ability to send an e-mail to ISCET asking any questions concerning the study material...answers is provided within 48 hours (holidays and weekends excepted) at no additional cost.

All Study Guides & Practice Tests are written to aid in preparation for ISCET Certification Examinations. They are not intended as learning or study text such as you would find in a text book environment. Subject knowledge is assumed. Study Guides & Practice Tests as offered by ISCET are intended only to familiarize you with the nature and form of the questions that will appear on the actual test, and to be helpful in identifying your strengths and weaknesses in specific areas of the subject being addressed. Learning Courses (LC), Tutorials (T), and Interactive (I) are designed to serve as learning material such as text books.

Prices Subject to Change Without Notice. – 12/2010

* Please review shipping chart for shipping and handling charges.

ELECTRONIC SYSTEMS ASSOCIATE (ESA) STUDY GUIDES CON'T

_____ **236 ESA-2, AC Electronics Self Study on Disc
(ESA-2-LC-D-236)\$69.95**

Same material information as the item above. This self study is delivered on a CD which will load onto your computer and run at you call, or you can run the disc from you CD Drive without loading anything on you computer.

_____ **237 ESA-3, Semi-Conductor Electronics Self Study
(ESA-3-LC-237).....\$49.95**

Learn electronics tailored to your schedule. Self study course allow you to access the material on the internet 24/7...study at a time avaiable for you any time. Course available for 150 days, with extensions available for small additional charge. Question during your study? Within each module is the ability to send an e-mail to ISCET asking any questions concerning the study material...answers is provided within 48 hours (holidays and weekends excepted) at no additional cost.

_____ **237 ESA-3, Semi Conductor Electornics Self Study
on Disc (ESA-3-LC-D-237).....\$69.95**

Same material information as the item above. This self study is delivered on a CD which will load onto your computer and run at you call, or you can run the disc from you CD Drive without loading anything on you computer.

_____ **238 ESA-4, Digital Self Study (ESA-4-LC-238)\$49.95**

Learn electronics tailored to your schedule. Self study course allow you to access the material on the internet 24/7...study at a time avaiable for you any time. Course available for 150 days, with extensions available for small additional charge. Question during your study? Within each module is the ability to send an e-mail to ISCET asking any questions concerning the study material...answers is provided within 48 hours (holidays and weekends excepted) at no additional cost.

_____ **238 ESA-4, Digital Study on Disc
(ESA-3-LC-D-237)\$69.95**

Same material information as the item above. This self study is delivered on a CD which will load onto your computer and run at you call, or you can run the disc from you CD Drive without loading anything on you computer.

ELECTRONIC REFERENCE & STUDY MATERIALS

_____ **186 Industrial Control Electronics 3rd Ed\$146.00**

By Terry L. M. Bartel

This new edition continues to provide state-of-the-art coverage of the entire spectrum of industrial control, from servomechanisms to instrumentation. Material on the components, circuits, instruments, and control techniques used in today's industrial automated systems has been fully updated to include new information on thyristors and sensor interfacing and updated information on AC variable speed drives. Following an overview of an industrial control loop, readers may delve into individual sections that explore each element of the loop in detail

_____ **187 Foundation of Electronics, 4th Ed\$148.00**

By Russell L. Meade

Reader-friendly and ideal for technician training, this comprehensive book begins by exploring basic concepts such as voltage, current, plus power and resistance in series, parallel and combination circuits.

_____ **188 DC/AC Circuits & Electronics, Principles
& Applications, 1st Ed\$120.00**

By Robert Herrick

Central to this book is its ability to engage readers who are new to the study of electronics in interesting and useful concepts from the start, guiding them in their efforts to learn how to develop and apply fundamental laws.

ELECTRONIC REFERENCE & STUDY MATERIALS CON'T

_____ **189 Modern Control Technology, Components
and Systems, 2nd Ed.....\$233.00**

By Christopher T. Kilian

Thoroughly updated, this edition features new material on popular PIC and BASIC Stamp Microcontrollers, plus expanded coverage of brushless DC motors, as well as networking used in control systems. Information has also been added to better address topics such as: decibels, levers, friction, clutches, and brakes, tooth rotor tachometers, vision sensors, dynamic braking of DC motors, linear motors, and flux vector AC drives.

_____ **190 Foundations of Electronics: Circuits &
Devices, 4th Ed\$170.00**

By Russell L Meade; Robert Diffenderfer

Chock full of full-color charts, photographs, schematics and diagrams. Equipped with an understanding of circuit behavior, readers move on to the study or more complex topics, including network theorems, magnetism, resonance, and more. Step-by-step examples and practical problems appear directly after explanations of key concepts, providing a bridge between must-know theory and hand-on circuit work.

_____ **191 Basic Electricity, A Text-Lab Manual,
7th Edition\$57.33**

By Paul B. Zbar; Gordon Rockmaker; David J. Bates

Designed for use in traditional DC/AC courses, this text serves equally well as stand-alone introductory test and lab manual or as a lab manual for use with any basic theory text. The content of this text/lab manual is prepared with the technical assistance of the Electronic Industries Association, guaranteeing that the material is consistent with the competencies of the electronics manufacturing and service industries.

_____ **192 Basic Electronics, Student Edition
with Multisim CD-ROM.....\$117.00**

By Bernard Grob, & Mitchel E. Schultz

Intended for students taking their first course in fundamentals of electricity and electronics. Troubleshooting is given expanded coverage in chapters 4-5-6, the chapters on series, parallel, and series parallel circuits. New questions, problems and applications exercises have been added to the end-of-chapter materials.

_____ **193 Electronics, A Complete Course, 2/e.....\$173.00**

By Nigel P. Cook

Over 40 Margin Timeline Photographs and vignettes highlight key historical milestones by industry entrepreneurs and connect their discoveries to appropriate text topics. Extensive component testing, circuit troubleshooting, and test equipment prepares student for the working world.

_____ **213 Teach Yourself Electricity & Electronics\$39.00**

By Stan Gibilisco. The quickest way to learn the hows and whys behind computing, communications, robotics, entertainment devices, and the force that makes them work. Packed with more than 500 learning-enhanced illustrations, practical examples, and self-quizzes and test, this matchless reference: Helps you solve current-voltage-resistance-impedance problems and make power calculations. Teaches simple circuit designed and optimization of circuit efficiency. Explains the theory behind advanced audio systems and amplifiers for live music. Features practical new information on wireless technologies, computers, the Internet, and more.

AUDIO STUDY GUIDES

_____ 149 **Audio Practice Test**\$3.50
75 example test questions for the for the Audio Journeyman exam with multiple choice questions and answers.

_____ 162 **Troubleshooting Consumer Audio Circuits**\$72.95
By Homer Davidson
This text helps technicians to repair and service the audio circuits found in the consumer electronics field. Covers everything from the basic amplifier of the small phono player to the high-powered auto receiver/amplifier. Provides critical electronic information for technicians and electronics students.

BIOMEDICAL STUDY GUIDE

_____ 056 **Introduction to Biomedical Equipment Technology, 4th Edition**\$186.00
By Joseph Carr CET and John Brown
This text is suitable for all levels of certification in biomedical equipment and electronics. Includes biomedical equipment instrumentation and measurement technology, basic theories of measurement technology, electro-optics, fiber optics, lasers, electromagnetic interference, care of battery operated medical equipments, and much more.

COMMUNICATIONS STUDY GUIDES

_____ 041 **Study Guide/Practice Test for the ISCET Journeyman Communications Electronics Certification Exam** \$19.95
By Stanley J Nawrocki, CET. The areas covered are: Basic Communications Circuits and Components, Communications Transmitters and Communications Receivers.

CONSUMER STUDY GUIDES

_____ 039 **The CET Study Guide, Edition**\$28.00
By Joe Risse CET and Sam Wilson CET
Satisfies requirements for technicians taking both **Associate** and **Consumer** CET exams. Covers basic electronics plus consumer electronics including digital circuits, linear circuits, televisions, VCRs, and test equipment.

COMPUTER STUDY GUIDE

_____ 042 **Study Guide/Practice Test for the ISCET Journeyman Computer Electronics Certification Exam**\$19.95
By David J Bates, CET. The areas covered are: Digital Fundamentals, Hardware Fundamentals, Communication Basic, Memory, Auxiliary Storage, Computer Input/Output, Microcomputer Operating Systems, Basic Network, and Troubleshooting/Upgrading.

_____ 181 **Online Learning Study Guide/Practice Test for the ISCET Journeyman Computer Electronics Certification Exam**\$49.95
A 25 question Study Guide and Practice Test, complete with rationale for each question....Includes diagrams and e-mail responses. Topics include Digital fundamentals, Hardware fundamentals, Communication basics, Memory, Auxiliary storage, Computer input/output, Microcomputer operating systems, Basic network, Troubleshooting/upgrading.

_____ 170 **Upgrading & Repairing PCs, 18th Edition**
by Scott Mueller\$58.65
This is the newest comprehensive update to the repair and maintenance of the PC. Author, Scott Mueller, has thoroughly updated his work with more than two hours of digital video demonstration PC maintenance and repair, which can be watched on a DVD player of PC equipped with DVD. Presents updated coverage of every significant PC component. Complete with 250 common PC hardware problems.

INDUSTRIAL STUDY GUIDE

_____ 166 **Industrial Electronics, 3rd Edition**.....\$188.00
By Thomas Kissell
Provides a study text for the industrial electronics technician preparing to take the CET Journeyman Endorsement examination. Topics include basic solid state and logic devices along with practical instruction on various programmable controllers; power, optoelectronic devices and industrial laser; power supplies, inverters and converters; operational amplifiers; PLCs and their PID loops; robotics, servo drives and stepper motors; and communications systems as linked to industrial applications.

_____ 168 **Study Guide & Practice Test for the ISCET Journeyman Industrial Electronics Certification**\$19.95
By Daniel L. Metzger CET
The areas covered are Industrial Workplace/Typical Components, Analog Circuits and systems, Digital and Microprocessor Circuits and Systems, DC Power Supplies, AC Power Supplies, and Troubleshooting and Circuit Analysis.

_____ 180 **Online Learning Study Guide/Practice Test for the ISCET Journeyman Industrial Electronics Certification Exam**\$49.95
A 25-question Study Guide and Practice Test, complete with rationale for each question. Includes diagrams, test evaluation and e-mail responses. Topics include basic solid state and logic devices along with practical instruction on various programmable controllers; power, optoelectronic devices and industrial lasers; power supplies, inverters and converters; operational Amplifiers; PLCs and their PID loops, robotic, servo drives and stepper motors; and communications systems as linked to industrial.

_____ 246 **Electricity, Fluid, Power and Mechanical Systems, By Thomas Kissell**.....\$131.49
Contains 284 pages including the index. 20 jam-packed chapters: Shp Safety and Shop Practices; Fundamentals of Electricity; Voltmeters, AMmeters and Hommeters; Series Cirtuits; Parallel and Series/Parallel Cirtuits; Magnetic Theory; Fundamentals of AC Electricity; Transformers and Three Phase and Single Phase Voltage; Relays, Contractors and Solenoids; Motor Starters and Over Current Controls; Single Phase AC Motors; Three Phase Motors; Lockout Tag Out; Motor Control Devices and Circuits; Progammble Controllers; Electronics for Maintenance Personnel; Basis Hydraulics & Pneumatics; Basic Mechanics; Power Transmission Systems; Troubleshooting. These chapter give student a meaningful exposure to the necessary elements of Industrial Maintenance.

RADAR STUDY GUIDES

_____ 176 **Study Guide/Practice Test for the ISCET Journeyman Radar Electronics Certification Exam**\$19.95
By Joseph J Villademoros, Ph.D., CET.
This study guide/practice test focuses on the type of electronic theory needed to pass the ISCET Journeyman Radar Certification Exam or the FCC Radar Endorsement, Element 8. It is designed with the intended of demonstrating what level of theory is needed, to help you determine your strengths and weakness, and to help make you more ease when sitting for the certification exam. The areas covered in this study guide are: Waveguides, Microwave Devices, Resonant Cavities and Magnetrons, Basic Radar Principles, Doppler Radar Principles, Phased Array Radar, Pulse Compression Radar, Over the Horizon Radar and Bistatic Radar.

_____ 179 **Online Learning Study Guide/Practice Test for the ISCET Journeyman Radar Electronics Certification Exam** \$49.95
A 25-question Study Guide & Practice Test, complete with rationale and in-depth theory explanation. Includes diagrams, test evaluation and e-mail responses. Topics include Waveguides, Microwave Devices, Resonant Cavities, Basic Radar, Doppler Radar, Phased Array Radar, Pulse Compression Radar, Over the Horizon Radar and Bistatic Radar.

ADDITIONAL LESSONS FOR BASIC ELECTRONICS & REGISTRATION OF CERTIFICATES

The following lessons have been specially prepared to train technicians in the basic disciplines in electronics servicing. Each lesson features programmed exercises & self-check quizzes in a “pace yourself modular approach.” Lessons may be purchased individually, or as a unit. Each complete unit qualifies for 10 clock hours or 1 continuing education unit.

Unit 103 - Using Mathematics in the Plant: 10 Unit Course. Begins by introducing mathematical basics — numbers, numerals, subtraction, addition, multiplication, etc. Examines common fractions, decimal fractions, ratios, proportions, powers and roots. Discusses the calculator — usage, basic functions, special functions, internal logic and special purpose calculators. Moves on to cover geometry, algebra, and using formulas for problem solving. Concludes by explaining trigonometry properties of triangles, trig functions, inverse trig functions and how to use them.

(Please indicate desired lesson below.)

___ 059	Lesson 103.1 - Whole Numbers.....	\$14.00
___ 060	Lesson 103.2 - Common Fractions	\$14.00
___ 061	Lesson 103.3 - Decimal Fractions	\$14.00
___ 062	Lesson 103.4 - Ratios/Proportions	\$14.00
___ 063	Lesson 103.5 - Powers & Roots.....	\$14.00
___ 064	Lesson 103.6 - Calculators.....	\$14.00
___ 065	Lesson 103.7 - Geometry	\$14.00
___ 066	Lesson 103.8 - Algebra	\$14.00
___ 067	Lesson 103.9 - Using Formulas	\$14.00
___ 068	Lesson 103.10 - Trigonometry.....	\$14.00
___ 069	Complete 10 Lesson Course	\$89.00

Unit 104 - Making Measurements: 10 Unit Course. Covers units of measurement used in commercial and industrial applications. Examines all aspects of basic measurements, concepts and procedures, including accuracy and tolerance. Discusses techniques and devices for comparison measurements (dial indicators and gauge blocks). Shows common methods for measuring volume, motion, force, temperature, fluid flow, and electricity. Explains how to use scales and rules, combination calipers, and micrometers. (Please indicate desired lesson below.)

___ 070	Lesson 104.1 - Units of Measurement.....	\$14.00
___ 071	Lesson 104.2 - Metric Measurement.....	\$14.00
___ 072	Lesson 104.3 - Linear Measurement	\$14.00
___ 073	Lesson 104.4 - Comparison/Surface	\$14.00
	Measurement	
___ 074	Lesson 104.5 - Measuring Bulk Materials	\$14.00
___ 075	Lesson 104.6 - Measuring Motion.....	\$14.00
___ 076	Lesson 104.7 - Measuring Forces.....	\$14.00
___ 077	Lesson 104.8 - Measuring Temperatures	\$14.00
___ 078	Lesson 104.9 - Measuring Fluids.....	\$14.00
___ 079	Lesson 104.10 - Measuring Electricity	\$14.00
___ 080	Complete 10 Lesson Course	\$89.00

Unit 201 - Understanding Basic Electricity & Electronics:

10 Unit Course. Covers basic, non-mathematical approach to understanding principles of electricity. Introduces electron theory, static electricity, electrons in motion, and magnetism. Covers basic method of measuring current, voltage, and resistance. Explains circuit components — conductors, insulators, resistors, capacitors, simple Ohm and #8217’s Law calculations for DC/AC circuits. (Please indicate desired lesson below.)

___ 081	Lesson 201.1 - Introduction to Electricity.....	\$14.00
___ 082	Lesson 201.2 - Static Electricity	\$14.00

ADDITIONAL LESSONS FOR BASIC ELECTRONICS & REGISTRATION OF CERTIFICATES (CONT.)

Unit 201 - Understanding Basic Electricity & Electronics:

10 Unit Course. Covers CON’T (Please indicate desired lesson below.)

___ 083	Lesson 201.3 - Current Electricity.....	\$14.00
___ 084	Lesson 201.4 - Magnetism	\$14.00
___ 085	Lesson 201.5 - Current, Resistance,	\$14.00
	Potential Diff	
___ 086	Lesson 201.6 - Electrical Components	\$14.00
___ 087	Lesson 201.7 - Conductors	\$14.00
___ 088	Lesson 201.8 - DC Circuits	\$14.00
___ 089	Lesson 201.9 - AC Circuits	\$14.00
___ 090	Lesson 201.10 - Electronics	\$14.00
___ 091	Complete 10 Lesson Course	\$89.00

Unit 202 - Using and Maintaining Batteries and DC Circuits:

10 Unit Course. Covers how electrochemical action is used. Covers batteries, electrolytic action, electroplating, characteristics of storage batteries, application and maintenance of lead-acid, nickel-alkaline, and nickel-cadmium batteries, putting batteries into service, charging batteries, maintaining records, fundamentals of DC circuits, using Ohm and #8217’s Law to solve problems in DC series, parallel, and series-parallel circuits.

(Please indicate desired lesson below.)

___ 092	Lesson 202.1 - Electrochemical Action.....	\$14.00
___ 093	Lesson 202.2 - Battery Characteristics.....	\$14.00
___ 094	Lesson 202.3 - Kinds of Batteries.....	\$14.00
___ 095	Lesson 202.4 - Maintaining Lead-Acid	\$14.00
	Batteries	
___ 096	Lesson 202.5 - Charging Lead-Acid Batteries....	\$14.00
___ 097	Lesson 202.6 - Solving Problems in DC Circuits	\$14.00
___ 098	Lesson 202.7 - DC Series Circuits.....	\$14.00
___ 099	Lesson 202.8 - Parallel Circuits	\$14.00
___ 100	Lesson 202.9 - Series-Parallel Circuits.....	\$14.00
___ 101	Lesson 202.10 - DC Circuits in Use	\$14.00
___ 102	Complete 10 Lesson Course	\$89.00

Unit 203 - Using and Maintaining Transformers and AC

Circuits: 10 Unit Course. Covers the differences between DC and AC circuits. Explains AC sine wave, using vectors to solve AC problems, calculating impedance in circuits having inductance, capacitance, and resistance. Also covers AC power relationships in single-phase, three-phase circuits, and principles of transformer maintenance.

(Please indicate desired lesson below.)

___ 103	Lesson 203.1 - Principles of Alternating Current	\$14.00
___ 104	Lesson 203.2 - Mathematics in AC Circuit	\$14.00
___ 105	Lesson 203.3 - Inductance & Inductive Reactance	\$14.00
___ 106	Lesson 203.4 - Capacitance & Capacitive.....	\$14.00
	Reactance	
___ 107	Lesson 203.5 - Impedance.....	\$14.00
___ 108	Lesson 203.6 - Power & Energy in AC Circuits	\$14.00
___ 109	Lesson 203.7 - Three-Phase Circuits	\$14.00
___ 110	Lesson 203.8 - Principles of Transformers.....	\$14.00
___ 111	Lesson 203.9 - Transformer Applications	\$14.00
___ 112	Lesson 203.10 - Maintaining Transformers	\$14.00
___ 113	Complete 10 Lesson Course	\$89.00

ADDITIONAL LESSONS FOR BASIC ELECTRONICS & REGISTRATION OF CERTIFICATES (CONT.)

Unit 204 - Electrical Measuring Instruments: 5 Unit Course.

Covers the principles on which electrical test instruments operate. Basic instruments covered include voltmeter, ammeter, wattmeter, ohmmeter, and megohmmeter. AC metering, split-core ammeter, use of current and potential transformers. Includes detailed coverage of modern multimeters. Explains functions and uses of oscilloscopes. **(Please indicate desired lesson below.)**

___ 114	Lesson 204.1 - Principles of Meter Operation	\$18.00
___ 115	Lesson 204.2 - Ammeters, Voltmeters,& Wattmeters	\$18.00
___ 116	Lesson 204.3 - Resistance Measurement.....	\$18.00
___ 117	Lesson 204.4 - Multimeters	\$18.00
___ 118	Lesson 204.5 - Oscilloscopes	\$18.00
___ 119	Complete 5 Lesson Course	\$82.00

Unit 251 - Semiconductors: 5 Unit Course. Covers the theory behind semiconductor operation. Describes the characteristics and operation of various kinds of diodes and transistors. Stresses the importance of proper environmental conditions and explains how to minimize electrostatic discharge (ESD) and radio frequency interference (RFI). Discusses printed circuit board (PCB) and integrated circuit (IC) technology, including connection and replacement methods. Identifies kinds of semiconductor packages. Explains how to interpret manufacturers and #8217, spec sheets, and how to analyze circuit performance by Q points and by characteristics. **(Please indicate desired lesson below.)**

___ 120	Lesson 251.1 - Introduction to Semiconductors	\$14.00
___ 121	Lesson 251.2 - Environmental Conditions	\$14.00
___ 122	Lesson 251.3 - Printed Circuit Boards	\$14.00
___ 123	Lesson 251.4 - Transistors/Integrated Circuits ..	\$14.00
___ 124	Lesson 251.5 - Packages & Performance Analysis	\$14.00
___ 125	Complete 5 Lesson Course	\$69.00

Unit 252 - Power Supplies: 6 Unit Course. Covers the 4 basic power supply conversions. Explains how to work with non-chemical and primary/secondary cells of various materials. Describes the functions/operation of several kinds of rectifiers, filters and voltage regulators and explains how they work together as power conditioners in circuits. Discusses basic tools, test devices, & procedures for solving a number of problems in the least amount of time. **(Please indicate desired lesson below.)**

___ 126	Lesson 252.1-Power Supplies/PowerConditioners	\$14.00
___ 127	Lesson 252.2 - Cells and Batteries	\$14.00
___ 128	Lesson 252.3 - Rectifiers	\$14.00
___ 129	Lesson 252.4 - Filters	\$14.00
___ 130	Lesson 252.5 - Voltage Regulators	\$14.00
___ 131	Lesson 252.6 - Troubleshooting Power Supplies	\$14.00
___ 132	Complete 6 Lesson Course	\$86.00

Unit 253 - Amplifiers: 5 Unit Course. Covers the effects of gain, bandwidth, and distortion on amplifier performance. Compares linear and nonlinear (switching) amplifiers. Explains how to use transistor curves to analyze amplifier operation in terms of operating regions, load lines, operating (Q) points, and biasing. Discusses impedance matching and compares capacitive, transformer, and direct-coupled amplifiers. Describes many ways op amps are used today, including integrators and comparators. Provides specific methods for troubleshooting common amplifier problems. **(Please indicate desired lesson below.)**

___ 133	Lesson 253.1 - Introduction to Amplifiers.....	\$14.00
___ 134	Lesson 253.2 - Single-Stage Amplifiers.....	\$14.00

ADDITIONAL LESSONS FOR BASIC ELECTRONICS & REGISTRATION OF CERTIFICATES (CONT.)

Unit 253 - Amplifiers: 5 Unit Course. CON'T

(Please indicate desired lesson below.)

___ 135	Lesson 253.3 - Performance & Multistage Amplifiers.....	\$14.00
___ 136	Lesson 253.4 - OP Amps	\$14.00
___ 137	Lesson 253.5 - Troubleshooting Amplifiers	\$14.00
___ 138	Complete 5 Lesson Course	\$69.00

Unit 254 - Oscillators: 5 Unit Course. Covers how oscillation is started and maintained. Compares LC (tuned), RC (phase-shift), and crystal oscillators. Compares sine wave oscillators and square-wave switching circuits. Discusses mono-stable, a-stable, and bi-stable flip-flop operation in detail and shows expected waveforms. Explains how logic clocks are generated and conditioned. Discusses Schmitt trigger circuits, frequency dividers, ripple counters, propagation delays and glitches. Describes the operation of low-pass, high-pass, band-pass, and band-reject filters, including differentiators and integrators. Describes the equipment and procedures for troubleshooting oscillator components and circuits. **(Please indicate desired lesson below.)**

___ 139	Lesson 254.1 - Introduction to Oscillators	\$14.00
___ 140	Lesson 254.2 - Flip-Flops	\$14.00
___ 141	Lesson 254.3 - Logic Clocks	\$14.00
___ 142	Lesson 254.4 - Filters and Waveforms	\$14.00
___ 143	Lesson 254.5 - Troubleshooting Oscillators	\$14.00
___ 144	Complete 5 Lesson Course	\$69.00

NESDA RECORDED TRAINING SESSIONS

___ 222-TS	Certified Service Manager Training.....	\$29.95
	2005 Training Series	

Cover types of corporations, legal issues, employer/employee relationship, how to conduct legal interviews, sample questions asked on the CSM exam. This course, along with the CSM Study Guide, will give a test-taker a good overview of knowledge required to pass the test. DVD, about 3 hours.

___ 223-TS	Dealer Success Story, CEI.....	\$29.95
	2005 Training Series	

Consolidated Electronics Int'l in Raleigh, NC is a successful business that does primarily warranty service. They operate an extremely efficient, professional service center and Rob Steinruck CET/CSM of Consolidated does an excellent job of discussing and describing why the company is doing so well. A link to a PowerPoint presentation used in this seminar is provided. DVD, about 3 hours.

___ 224-TS	There's Money in Those Walls!.....	\$29.95
	2005 Training Series	

Presented at 2005 T-E-A Management Institute by Brian Gibson CET and Fred Paradis of Elite Media Solutions, Wellesley, MA. The presentation explains what is involved in offering installation and support for high-end home theater and entertainment products by two gentlemen who have been very successful using this business model in their own business. DVD, about 3 hours.

___ 225-TS	NPSC Best Ideas Contest.....	\$29.95
	2005 Training Series	

Recorded live at NPSC 2005. The annual Best Ideas Contest at NPSC has for many years been a staple of the NPSC schedule. Gerry McCann CET/CSM, EHF and wife Faye moderate the session every year. Everyone who attends comes away with lots of new ideas to enhance business and improve efficiency. DVD, about 2 hours.

VIDEO STUDY GUIDES

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