

ASSOCIATE C.E.T. (CETa) COMPETENCY LISTING

BASIC ELECTRONICS CERTIFICATION

(As recommended by the NCEE—National Coalition for Electronics Education and ETA's Associate C.E.T. Exam Development Committee)



1.0 Electrical Theory

- 1.1. Describe atomic structure, the components of the atom, their charges and importance to electronics technology
- 1.2. List ten uses for magnetism in electronics technology
- 1.3. Explain basic uses for electricity
- 1.4. Describe the basic methods of using electricity to operate a motor and how mechanical motion causes a generator to produce electrical current
- 1.5. Explain the differences between current, voltage and resistance
- 1.6. List different types of resistive materials and how resistors are used in electronics
- 1.7. Show the different purposes for capacitors and list common types and construction
- 1.8. Explain how inductance relates to magnetism and describe coil construction, cores and usages
- 1.9. Show a comparison between reactance and resistance and describe current/voltage relationships
- 1.10. Compare impedance with reactance and resistance and explain the causes and effects of impedance
- 1.11. List voltage sources, AC and DC, batteries and natural generation
- 1.12. List Ohm's law formulas for current, voltage, resistance and power. Solve math problems utilizing each
- 1.13. Calculate power consumption and requirements

2.0 Electronic Components

- 2.1. Identify resistor values from color code or other marks and list composition and reasons for different usages
- 2.2. Identify capacitor types; list common usages; methods of varying capacitance and explain the terms charge and coulomb
- 2.3. Identify inductor types and reasons for various core materials; how diameter and wire size affects the values
- 2.4. Identify common types of transformers and list uses for each; explain step up/down voltage methods; explain why laminations are used
- 2.5. Identify transistors as to type and usage, such as unijunction, FETs and MOSFETs; explain beta and alpha and provide common DC and bias voltage ranges; list common usages
- 2.6. Identify other semiconductors and explain their uses: Darlington pairs; unijunction transistors and Gunn diodes
- 2.7. Compare thyristors with other semiconductors; identifying diacs, triacs and SCRs and explain their operation
- 2.8. Explain zener diode ratings; describe usage in regulator circuits
- 2.9. List common optical devices (LEDs, LCDs, etc.); describe how photovoltaic cells are activated. Draw symbols for photo resistors, photodiodes and photo transistors; list materials from which these devices are made
- 2.10. Describe MOS, CMOS, FET applications

Assoicate Ceta Study Guide

RJ Shavelson



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