

List of Certification Skills for

Solid State Electronics

- ✓ Proficient in applications of advanced circuits, electrical measurement and electrical implementation used in the electronics and computer industries
- ✓ Proficient in applying engineering principles and technical skills to troubleshoot, repair and modify electronic components, equipment, and power electronics systems in project-based environments
- ✓ Proficient in applying Ohm's law, Kirchhoff's laws and power laws to advanced circuit theory
- ✓ Proficient in performing advanced electrical-electronic troubleshooting tasks
- ✓ Proficient in applying knowledge of voltage regulation devices and applying knowledge of the design and use of diodes, transistors and analog components with integrated circuits
- ✓ Proficient applying electronic theory to generators, electric motors, power supplies, electronic amplifiers, electronic oscillators, communication circuits and related systems
- ✓ Proficient in the use of tools, safely uses laboratory equipment to construct and repair circuits and use precision measuring instrument instruments to analyze circuits and prototypes
- ✓ Proficient in interpreting advanced industry standard schematics and can identify areas where quality, reliability, and safety can be designed into a product
- ✓ OSHA certified