



NCCER – Electronic Systems Technician (EST) – Level 1

Certification website: [Electronic Systems Technician - NCCER](#)

Credential Summary

This unique Electronic Systems Technicians (EST) curriculum prepares learners for a career in this highly in-demand field, with strong emphasis on installing and troubleshooting telecommunications, security, and fire alarm systems. The four-level Electronic Systems Technicians (EST) curriculum uses the first two levels of Electrical training as the starting point for learners seeking a career as an Electronic Systems Technician. After completing Electrical Levels 1 and 2, trainees can choose to advance into Electrical Levels 3-4 or EST Levels 3-4.

Overview

- **Related Instructional Hours:** 160
- **Exam details:** Pass with 70%
- **Third party testing provider:** National Center for Construction Education & Research (NCCER)
- **Exam cost:** \$3
- **Renewal details:** N/A

Job Opportunities

- **Relevant SOC codes**
 - Electrician 47-2111
 - Electrical and Electronic Engineering Technologists and Technicians 17-3023
 - Electric Motor, Power Tool, and Related Repairers 49-2092
- **Demand Information**
 - Average flame ranking = 3.68/5
- **Average Wages**
 - Ranges from \$49,660 (23.88 per hour) to \$69,650 (33.49 per hour)
(Average wages pulled as of October 2023)

Knowledge, Skills, and Competencies

- Limited-Energy Cabling
- Limited-Energy Cable Selection
- Limited-Energy Cable Termination
- Limited-Energy Network Installations
- Fiber Optics
- Wireless Communications
- Site Survey, Project Planning, and Documentation
- Rack Assembly
- System Commissioning and User Training
- Maintenance and Repair



Post Secondary Relevance

- **Next level programs of study**
 - Construction Trades
 - Electrical Fundamentals
 - Advanced Electrical
 - Electronics and Computer Technology
 - Electronic Fundamentals