

Preparing for the NETA ETT Level 2 Certification

Certified Assistant Technician

InterNational Electrical Testing Association

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Resource Document

EXAM ROADMAP: NETA ETT Level 2 - Certified Assistant Technician

The NETA ETT Level 2 Roadmap outlines key milestones to help candidates prepare for the Level 2 certification exam. While this document presents a typical progression, individual paths may vary based on factors such as educational background, the availability of training resources at the NETA Accredited Company, and access to formal coursework and on-the-job training. This roadmap is intended to serve as a flexible framework to support the development of the knowledge, skills, and abilities needed to successfully pursue NETA ETT Level 2 certification.

Prerequisites: NETA Level 2 Certified Assistant Technician

- **Education and Training:** 40 hours of safety + 160 hours of electrical
- **Related Experience:** Two years* + meet the qualifications for Level 1 (HS Diploma/GED):
  - Simple assistance
  - Simple measurements
  - Test equipment set up and removal
  - Cleaning
- **Supervision & Training**
  - Require the supervision of a Level 3 ETT Certified Technician or Level 4 Senior Certified Technician.
  - Completes training both in classroom and hands-on field training.

PHASED 2-YEAR PROCESS

Phase 1: (0-6 Months) Initial Training & Work Experience

1. Complete company onboarding process.
2. Attend required safety training (NFPA 70E/CSA Z462, OSHA).
3. Review the NETA Certification Exam Preparation Resources from the NETA website.
4. Complete electrical testing fundamentals training.
5. Begin hands-on field training under direct supervision.
6. Review the ANSI/NETA ETT Section 8, Detailed Content Outline for NETA Level 2 Certified Assistant Technician to identify the knowledge, skills, and abilities in the four key domains:
   a. Safety
   b. Electrical Testing Fundamentals and Theory
   c. Component Testing
   d. Systems and Commissioning

Phase 2: (6-12 Months) On-the-Job Training & Knowledge Development

1. Utilize company-provided training resources (manuals, online courses).
2. Take NFPA 70B training (Optional).
3. Take the NETA QEMW exam to validate core content as a NETA Level 1 Trainee Technician (Optional).
4. View the free NETA Certification Exams: Exam Preparation Seminar video from the NETA Bookstore to gain tips in your preparation.
5. Gain hands-on experience in electrical testing fundamentals per the ANSI/NETA Standards:
    a. Acceptance Testing (ATS)
        - Performed on new electrical installations before they are energized.
        - Ensure equipment is installed correctly and functions per design.
        - Verifies compliance with manufacturer specifications and industry standards.
    b. Maintenance Testing (MTS)
        - Conducted on in-service equipment to assess condition and ensure ongoing safe operation.
        - Identifies aging, wear, and degradation before failure occurs.
        - Supports preventive and predictive maintenance programs.
    c. Commissioning Testing (ECS)
        - Verifies that equipment and systems are installed correctly, function as designed, and are safe to energize.
        - Promotes reliability by uncovering design, installation, or operational issues before the system goes live.
        - Standardizes documentation, including commissioning plans, test reports, and issue tracking.
6. Continue knowledge of other key industry standards:
    a. NFPA: 70E, 70B, 70 (CSA Z462/Z463)
    b. IEEE
    c. ASTM F-18
    d. OSHA

Phase 3: (12-18 Months) Fundamentals & Self-Study

1. Take the NETA ETT Level 2 Practice Exam to gauge progress and any areas that may need additional focus. The results will provide guidance and you can access the results for 60 days.
2. Attend internal/external technical and safety training sessions.

3. Review key areas from the ANSI/NETA ETT and utilize as a checklist for studying.
4. Participate in peer study groups or mentorship programs with a NETA certified technician.

Phase 4: (18-24 Months) Advanced Exam Preparation

1. Commit to a specific number of hours per week for study preparation.
2. Retake the NETA ETT Level 2 Practice Exam to gauge improvement or assess areas requiring additional focus and study.
3. Utilize training resources to further development needed areas for improvement - NETA Bookstore On-demand Training and search by topic.
4. Continue peer study groups or mentorship programs with a NETA certified technician.

Phase 5: (End of Year 2) Take the NETA Level 2 Certified Assistant Exam

1. Work with your NETA Accredited Representative to verify your eligibility to take the NETA Level 2 Certified Assistant Technician.
2. Schedule and register for the NETA Level 2 Certified Assistant Technician exam.
3. Retakes are allowed after 60 days from your exam date. Keep in mind only 50% of exams are passed on the first attempt. Focus on gaining more knowledge and experience.
4. Seek mentoring from other NETA Level 2-4 technicians.
5. Attend the PowerTest annual conference for CTDs.

Resources:

- NETA's Exam Preparation webpage
- NETA Electrical Testing Engineering Technician Apprenticeship program – Appendix A
- NETA Level 2 Detailed Content Outline
- NETA Training Content available by equipment or system available in NETA Bookstore
- NETA Certification Exam Preparation Seminar
- NETA ETT Practice Exam
- NETA Accredited Company's Internal Training Programs and Training Content
- ANSI/NETA Standards – ATS, MTS, ECS, ETT, and EMW
- Correlated Industry Standards (i.e., NFPA/CSA, IEEE, ASTM, OSHA, etc.)
- AVO QEMW 2-day and 4-day Training Program
- Other externally available applicable training content
- Mentorship & Peer Study Groups