

ANSI/NETA ETT-2000

AMERICAN NATIONAL STANDARD

**STANDARD FOR
CERTIFICATION OF
ELECTRICAL TESTING TECHNICIANS**

Secretariat
**InterNational Electrical Testing
Association**



Approved by
American National Standards Institute



American National Standard

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This standard is intended to be suitable for mandatory application by governmental bodies exercising legal jurisdiction over electrical installations and facilities; it may be used by insurance inspectors and others to codify the expertise of electrical testing personnel.

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These lists represent the membership at the time the text of this document was balloted. Since that time, changes in the membership may have occurred.

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FOREWORD

(This Foreword is not part of American National Standard ANSI/NETA ETT-2000)

The InterNational Electrical Testing Association (NETA) was established in 1972 to establish uniform testing procedures for electrical equipment and apparatus.

NETA developed specifications for the acceptance of new electrical apparatus prior to energization and for the maintenance of existing apparatus to determine its suitability to remain in service.

In 1987, NETA recognized the need for guidelines for the technicians who perform electrical testing services. The Preface of *Standard for Certification of Electrical Testing Technicians* states the reasons succinctly.

At the NETA quarterly meeting in October 1993, a task group was formed to codify NETA's experience, education, and training requirements necessary for an individual to obtain a level of competency as an electrical test technician. Because NETA accredits the qualifications of the member company as well as certifies the individual, another directive of this task group was to assure that the NETA requirements were aligned with the National Institute for Certification of Engineering Technologies (NICET) for an alternate certification path for qualified individuals.

From 1993 through 1995, this task group conducted many meetings. In September 1995, the group presented a draft document which normalized the NETA program with that of NICET by instituting four levels of technicians. The document also provided definitions and requirements for each level. Members present voted unanimously to accept this proposal. Subsequent to this meeting, the NETA Board of Directors recommended, and the membership concurred by vote, to continue development of the program for ultimate acceptance by ANSI as an American National Standard. At each step of the development process, reports of progress were published in *NETA World*. In addition to public announcements that the document was available for review, NETA has also actively solicited the input of interested stakeholders. The various working drafts were offered and supplied to a broad spectrum of the industry.

Development of the NETA/NICET technician certification program continued from September 1995 through February 2000 with input from Membership, Board of Directors, Technical Committee, and the Standards Review Council. In February 1997, the Board of Directors approved the test technician matrix and recommended it to the Members at the March 1997 Membership Meeting. At this meeting, the Members approved the matrix unanimously.

Following approval of the matrix and overall concept by NETA Members, all documents were compiled and working drafts were prepared. Revised drafts were circulated to the NETA Board, Officers, Standards Review Council, Accredited Representatives, and other interested stakeholders, such as educators, consultants, users, specifiers, etc. This process involved considerable review and incorporation of comments. The participation of a wide variety of stakeholders during the review process contributed to the acceptance of this document.

Standard for the Certification of Electrical Testing Technicians was approved by ANSI on March 15, 2000.

Suggestions for improvement of the standard are welcome. They should be sent to the InterNational Electrical Testing Association, PO Box 687, Morrison, Colorado 80465.

PREFACE

Specifying requisite levels of training, experience, and education for the evaluator of electrical power equipment is as important as the test procedure itself. The requirements herein parallel those of the National Skill Standards Board in Washington, DC, which promulgates skill levels for various occupations.

An Electrical Testing Technician (ETT) performs tests and inspections and evaluates the suitability of electrical power equipment and systems for the intended use.

Inherent in the determination of the serviceability of electrical equipment is the prerequisite that individuals performing these tests be capable of conducting the tests in a safe manner and with complete knowledge of the hazards involved. They must also evaluate the test data and form an opinion on the continued serviceability or non-serviceability of the specific equipment. The evaluation of service-aged equipment requires subjective assessment by the ETT.

Certification is a means for individuals to indicate to employers, co-workers, the general public, and others that they have met the standards of an impartial, nationally-recognized organization for the performance of specific technical tasks by virtue of their technical knowledge and experience.



NETA STANDARD FOR CERTIFICATION OF ELECTRICAL TESTING TECHNICIANS

1. SCOPE

- 2.1 This standard establishes minimum requirements for qualification and certification of the electrical testing technician (ETT).
- 2.2 This standard details the minimum training and experience requirements for electrical testing technicians and provides criteria for documenting qualifications and certification.
- 2.3 This standard details the minimum qualifications for an independent and impartial certifying body to certify electrical testing technicians.

2. DEFINITIONS

The definitions in this standard are intended to clarify the meaning of terms used in this standard, as they apply to this standard, and only to this standard. No broader application of these definitions is implied.

Annex

Supplementary information which is mandatory to this standard.

Appendix

Supplementary information which is informational but not mandatory to this standard.

Candidate

Individual who does not hold a current and valid certificate but may be involved in a certification system as an applicant or examinee.

Certificant

Individual who holds a current and valid electrical testing technician (ETT) certificate.

Certification Body (Certifying Body)

Organization that meets the criteria as outlined in this standard for offering an electrical testing technician (ETT) certification program.

Certification System

System that has its own rules of procedure and management for carrying out certification.

Certification Element

An area of job performance on which a candidate for certification will be tested by written examination.

Certification Process

The process by which a third party provides written assurance that a person's competence conforms to specified requirements.

Certify

To confirm formally that a candidate has met the criteria and passed a comprehensive written examination that indicates competence in electrical testing.

