Dear Certification Seeker,

Today, electronics is one of the fastest growing industries. We have come a long way from vacuum tubes and mechanical switches. ETA® International has remained committed to serving technicians and modeling certification programs to keep pace with emerging technologies.

ETA offers a career path that ranges from students with little or no experience to a master level for those who have dedicated several years to improving and expanding their skill sets. ETA International’s certifications are important for both individuals and business organizations.

For an individual, certifications:
- are a quantifiable milestone of achievement
- are a way to benchmark skills sets
- link competency to compensation
- enable advancement or flexibility in conditions of job change or advancement
- create industry visibility of one of the highest recognized electronics certifications
- are personal and portable certifications
- show levels of certification progression and disciplines to continued skills development
- are proof of mastery of the technologies in the industry

For a business/organization, certifications:
- show workmanship that results in both internal and external customer satisfaction
- enhance credibility within the organization and with external customers
- identify employees who are qualified to provide leadership to team members
- maximize investment by accurately determining individual and organizational training needs
- support decisions of appropriate skill level when hiring or promoting
- support employee retention plans - present new challenges and career path choices to employees
- provide the company with confidence that contracted vendors are technically qualified

ETA distinguishes itself from other associations by being an organization primarily composed of individuals. ETA is comprised of technicians from every conceivable area of electronics, communications and technology. The interchange of information and the broad viewpoint that members are exposed to creates a unique and valuable entity.

The intent of ETA is to Connect (leaders in our industry); Innovate (through networking and discussions); and Evolve (initiatives that revitalize and strengthen our industry). This information booklet will help move you forward in your industry through certifications.

Sincerely,

Teresa Maher, CSS, KD9DCV
President
History

ETA® International (Electronics Technicians Association, International) founded in 1978, is a not-for-profit, professional association promoting excellence in electronics technologies through certification.

The association’s initiatives are to provide prominent certification programs of competency criteria and testing benchmarks that include international electronics standards and provide renowned professional electronics credentials.

The organization began with leaders like Richard “Dick” Glass, CETsr, Ron Crow, CETma, D.C. “Snow” Larson, CET and others who had earned much respect in the electronics industry. In the late 1970s, the founders decided never to affiliate too closely with any manufacturer. ETA was to be truly a group of technicians by technicians for technicians. Today, ETA is a strong and well known organization with over 5,000 members and over 180,000 certifications processed to date. ETA’s focus is to help new and upcoming technicians and the technical schools they attend achieve their career goals.

Although certification, specifically, was not an original goal, it occurred naturally as ETA grew. As a non-vendor-specific, independent third party certifying organization, ETA receives inquiries each month from schools asking for assistance in either recommending and/or certifying curriculums or texts. In addition, the U.S. military, through their individual education offices, has an agreement with ETA for both CET and FCC Commercial License testing at all U.S. military facilities worldwide.

ETA is not only strong in the certification field, but it provides many other services for technicians and electronics service firms. ETA has participated in governmental law and rule-making by commenting on behalf of technicians regarding pending local, state, or national actions of governments. The association works closely with other organizations such as the National Association of Radio and Telecommunications Engineers (NARTE), National Technical Honor Society (NTHS), Consumer Electronics Association (CEA), American Society of Certified Engineering Technicians (ASCET) as well as other local, state, national, and international groups.

While ETA membership is also available to service dealerships and other institutions, the typical member is an electronics technician. By having a membership composed of technicians from every conceivable area of electronics, communications and networking technology, the interchange of information and the broad viewpoint members are exposed to creates a unique and valuable entity.

Hundreds of members have taken an active role in the association by participating as area representatives, becoming certification administrators, writing for the publications and journals or by teaching a class at seminars and conventions. ETA is not just an association that collects your dues and then issues an occasional report. It is a fellowship of technicians who love their jobs and see ETA as the adhesive that binds real professional technicians together for the greater good.

State Representatives:
ETA has both state and national representatives who represent ETA within the community when needed. We are always looking for new members to apply. Holding the title of state and/or national representative includes many duties. Upon applying and becoming approved, you might be asked to:

- Contact ETA with any local developments reported by the industry or in the education of electronics related fields.
- Offer clarification, when a situation arises in the area, and we need further details; for example, a licensing requirement or change.
- Reach out to local schools or businesses with ETA material.
- Visit a school or business which has shown interest in ETA.
- Be available to attend a show or event, including a career day or job fair, if we are unable to send someone from the ETA home office.
- Contact local industry or workforce development boards with ETA information.
- Submit articles related to activities in your area for ETA’s publication, the High Tech News.
- Any other tasks that help promote ETA within the industries we serve.
Certification Programs

Career/Workforce Development:
ETA offers many stand-alone certifications that do not require a formal course of study or other training prerequisites such as Telecommunications (TCM), Computer Service Technician (CST), and Certified Alarm-Security Technician (CAST).

Most certifications are gained at the conclusion of an educational course and examination. There are some programs that include a hands-on component and require skills documentation such as the fiber optics and data cabling certification programs. (When skills verification is involved, successful completion of an educational course through an ETA-approved school is required.)

While most certifications are voluntary, some jobs require the worker to hold a specific certification (2-way communications, fiber, satellite, cell-sites, etc.). ETA certifications are widely recognized and frequently used in employer job selections, hiring processes and pay scale, or for promotions/advancements.

Usefulness to Schools:
ETA programs are widely used by individual states to allow verified credits to students. The entire CET program is easily implemented at no cost in secondary, postsecondary, and commercial technical schools. ETA’s programs also fulfill Perkins funding requirements for industry certification.

Course Approvals:
Many educational facilities are required to prove that the training programs offered are both beneficial to students and worth the additional costs. Students want proof that the time and money spent in learning the profession will pay off with a good career upon graduation or completion of the course.

ETA provides third-party reviews that many schools require of electronics courses, evaluating the instructor credentials, lab and classroom equipment, course outlines, etc. The reviews have been used by all levels of education, both public and commercial, as well as military.

Training and Study Guides:
ETA aligns with individual professional goals, vocational and education curriculums, and businesses’ resource initiatives through certification programs, conferences, speaking engagements, books, and journal publications.

ETA actively supports training and education through the development of study guides and seminars, as well as working with a large number of ETA-approved schools and courses.

ETA works with high schools, vocational schools, colleges, universities, educators, corporate trainers, correctional facilities and electronics industry professionals to find proper and sufficient training resources in their area.

Memberships:
Association membership is voluntary- a fundamental premise of ETA’s member eligibility requirements that sets us apart from most certification associations. Members receive benefits such as the High Tech News (ETA’s bi-monthly publication), communication with peers through regular members-only technical access message boards and forums, as well as discounts on various industry publications, conferences, and events.

Accessibility:
ETA exams are available at approximately 1,000 educational institutions, all U.S. military base education offices worldwide and several penal institutions. Most can be taken online via ETA’s Trapeza online testing website. Examinations are routinely scheduled with an ETA certification administrator, but if one is not close to the examinee, then a library may be used.

Eligibility:
ETA examinations and certifications are not restricted to existing electronics technicians. They are open to all individuals regardless of career field, training, education or experience. ETA certification programs are non-discriminatory, objective and reasonably priced.

Portability:
ETA’s certifications travel with the certification holder wherever they may be employed. ETA tested nearly 13,000 technicians in 2014. Currently, 600+ subject matter experts (SMEs) serve on various certification advisory committees. ETA has its own Board of Directors and approximately 1,000 certification administrators (CAs) around the world.
An ETA certification signifies that the holder demonstrates professional proficiency within a certain discipline. Certification holders are recognized as having the necessary knowledge and technical skill to design, install, service, or repair electronic equipment according to industry standards—not specific to a manufacturer, vendor, or product.

All ETA certifications measure the competencies of the person—not products or companies. Thousands of technicians have gained ETA certifications in basic or specialty segments of electronics; for example, 56,000+ professionals have completed our fiber optics certifications.

The CET (Certified Electronics Technician) program is one of the most widely recognized certification programs in the industry. Other specialty assessments have varying degrees of industry visibility, but all are linked to ETA’s long-standing position in the electronics industry.

Industry Recognized Standards

Effectiveness of ETA Certification:
Since 1965, the program has been proven effective. Aligning with the ISO 17024 standard, and collaborating with education providers and industry professionals, ETA provides the criteria which tests the knowledge and/or hands-on skills needed in today’s electronics industries. However, ETA constantly seeks information from employers, schools, and individuals verifying the validity and current relevance of its assessments.

Accreditation:
ETA’s industry-based examinations are modeled after international competency standards. Each discipline utilizes its own group of educators and practitioners, plus industry-wide reviews, to align with the industry standards. The standards clearly articulate the skills and knowledge relevant to specific segments of the industry.

ETA is a member of the International Certification Accreditation Council (ICAC), which audits ETA’s programs and processes every five years for accreditation.

Input Standards:
ETA’s exam advisory boards, specific for each certification, are composed of subject matter experts (SMEs) who are demographically and educationally diverse with a broad range of experience. ETA’s three-step process for evolving competencies is now used by the all-industry NCCE in arriving at curricula and competency standards.

Task analysis by educators, employers, and practitioners is an important part of the process of developing industry-based competencies, upon which the certification exams are based. Both internal and external judgments are included in development.

Quality Control:
ETA’s panels of experts are second to none. Strong educator input by committees of SMEs, reviews by the ETA Advisory Board, multiple national associations, and technicians currently working in the field provide a level of review unprecedented in the electronics industry.

Educators, practitioners, students, and employers have subjected ETA’s assessments to critical scrutiny. Reliability, Validity, and Consistency are hallmarks of ETA certifications.

Audits:
ETA examinations are reviewed for updating each year.

Review:
All exam pools are input to the ETA computer-based testing program, which is then used by the SMEs, who review all questions. In addition, ETA’s staff has multiple graphics and proofreading experts handling each of its technical assessments.

Privacy:
ETA examination scores and personal information are confidential and are not divulged to employers or co-workers.

Weighting of Exams Questions:
Weighting of exam questions is not viewed as relevant for technical workers since a seemingly insignificant competency may well be as important to safety or proper service as one that appears to be much more exotic. (e.g.: oscilloscope operation vs. replacing a fuse.)
ETA’s Education Forum

ETA’s Education Forum, a world-class technical education conference, is held annually at various sites in the United States. It is the ideal venue for both professional and curriculum development, regardless of skill level, focusing on hands-on training.

The Education Forum is the focal point for technical and educational professionals to discover emerging technologies, network and collaborate with fellow technicians and educators, have access to training and speaking sessions with industry experts, sit for certification examinations, gain continuing education credits, and discuss classroom implementation strategies.

ETA hosts training workshops and sessions provided by industry leaders such as Light Brigade, Motorola Solutions, Corning Cable Systems, Slayton Solutions, Dover Telecommunication Services, Ira Weisenfeld & Associates, Bird Technologies and more. In addition, ETA conducts an Annual Membership Meeting and Awards Banquet at the Education Forum. Visit the website for the current schedule at www.educationforum.info.

ETA Certification Administration

ETA has nearly 1,000 certification administrators (CAs) around the world. Each examination must be proctored by a CA. To find a CA, either visit the ETA website or call ETA. If a test site is not near the examinee’s location, then arrangements can be made at a local library. The examinee must contact the library and set up a date and time to take the test, then contact ETA with the appropriate contact information. ETA will then send the materials to the library.

ETA Examination Materials

When preparing for an ETA certification examination, examinees are encouraged to use suggested study materials and the available competencies. In addition to the many offerings in the ETA Online Store, ETA offers study materials developed exclusively for the ETA Customer Service and Associate CET examinations. These were written by ETA professionals for ETA professionals.


$25 Members / $30 Non-Members

The CSS Study Guide contains all of the information in previous editions plus new chapters such as Social Media. The best way to prepare for the popular Customer Service Specialist exam also prepares you for working with other technicians and service personnel at your place of employment and at the other firms your company may deal with. It contains chapter quizzes and an overall practice exam quiz similar to the actual CSS exam.

The information contained in this guide is applicable to anyone who works with the public: helpdesk, sales, educators, business owners, nurses, repair technicians, and co-workers!

The Associate CET Study Guide, 6th Edition

$50 Members / $60 Non-Members

The latest edition is now available. It features 22 chapters authored by 16 practicing technicians and instructors from around the world, as well as new practice exams and test site locator access.

Technical topics range from Electronic Components, DC Circuits, Microprocessors and Transmitters to essential skills every Certified Electronics Technician needs such as Record Keeping and Technical Writing. Each chapter is followed by a practice quiz and the entire guide is covered in a final Online Practice Examination, which will further prepare an individual for the Associate CET examination. It also comes with a link to a complete online listing of current Certification Administrator locations. With this, an exam candidate can easily find a location for testing.

To order ETA Study Materials, please visit www.eta-i.org
Taking an ETA Examination(s)

1. Decide which ETA certification(s) you would like to take and review the free objectives/competencies provided by ETA. Call to see if additional study materials are available.

2. Find an ETA certification administrator (CA) close to you to proctor the exam. You can search ETA’s online database of test sites at www.eta-i.org/test_sites.html, or contact ETA at (800) 288-3824.

3. If a test site is not close to you, then you may contact a local library to proctor your exam.

4. Decide whether to take the exam online with Trapeza or on paper. Note: A certification administrator must be present regardless of which test format is chosen.

5. Arrange a time to take the exam with the chosen certification administrator.

6. Arrive early with the proper materials to take the exam. You may bring scratch paper and a non-programmable calculator to the exam. For most exams, you will be given two hours if needed. Photo ID and #2 pencils required.

7. Once completed, the certification administrator will submit your exam and information along with payment. If you test online with ETA, then you will be able to view your score(s) immediately.

8. Examinations are processed within 7-10 business days of arrival at ETA headquarters. However, scores may be requested online through the ETA website (www.eta-i.org/exam_results.html).

9. If you fail an ETA certification examination taken with pencil/paper, then you may then request an examination review which covers the questions you missed. AST112, AVN299, TRN112, BIET103, GVT111, and CSM107 examination reviews are available. Examination reviews are available for an additional $25.00.

**As provided for under the ADA (American’s with Disabilities Act), if you require special needs accomodation in order to complete the certification process, then please notify your Certification Administrator when scheduling your exam.

Ladder of Career Progression:
ETA provides a stackable, latticed path for career advancement. Basic entry levels for Student (SET) and Associate Electronics (CETa); Journeyman (CET), Senior (CETsr) and Master (CETma); Basic, Journeyman and Master Residential Electronics Systems Integrator (RESI); Master Satellite Installer; Fiber Optics Installer (FOI), Fiber Optics-Outside Plant (FOT-OSP), Fiber Optics Technician (FOT), and Fiber Optics Designer (FOD), or endorsements for specific disciplines have been designed into the program as the need occurs.
Apprentice Electronics Technician
APP — $60.00
The telecommunication Apprentice certification program (APP) is designed to only measure the knowledge of basic direct and alternating current theory as well as basic technical mathematics necessary to begin a training program in this field. Knowledge of cabling, power supplies, test equipment, as well as safety are also measured. This program is primarily targeted towards those who wish to pursue a technical career in the telecommunications industry and want to demonstrate their ability and knowledge to benefit from an in-company or company sponsored technical training program. (This exam does not replace the Associate Certified Electronics Technician (CETa) certification.)

Associate Certified Electronics Technician
CETa — $60.00 (Associate exam FREE if taken with a Journeyman exam at the same time.)
The Associate certification is designed for technicians who have less than two years experience or trade school training for electronics technicians. The Associate certification is valid for four years. It is also the foundation for the Journeyman certification program. The CETa is more in-depth than the Student Electronics Technician (SET) as it expands on all of the topics listed within the SET. The CETa is now a renewable certification.

The Associate Electronics Technician also has an optional hands-on component that can be used as a part of the training process.

Electronics Modules
Standalone Option
EM1-5 — $25.00 ea.
The EM5 program is based on ETA's Associate level certification (CETa). The CETa competencies have been divided into five sections called "modules." The purpose of this is to align with a growing portion of the electronics education industry that is charged with providing electronics training that does not include the total content of traditional Basic Electronics courses. In some instances, technical institutions are asked to provide training in only certain portions of electronics. This is so that companies that need only narrower skills and knowledge (than one expects of a complete CETa) can employ workers who have required knowledge and skills for only the technology and processes they currently use at that company.

To provide a path for the technician leading to the CETa credential, the five BASIC modules of the CETa can be acquired individually. Once a technician attains all five module certifications, ETA will issue an official CETa certification (all five must be passed within a two-year period). The technician may also choose to gain only those modules needed in order to be employable.

The five basic Electronics Modules are:
- Direct Current (DC)
- Alternating Current (AC)
- Analog
- Digital
- Comprehensive

Student Electronics Technician
SET — $30.00
The SET allows high school students and entry-level technicians the opportunity to earn a basic beginner’s certification. The examination covers a variety of topics including: Electrical Theory; Electronic Components; Soldering-Desoldering and Tools; Block Diagrams-Schematics-Wiring Diagrams; Cabling; Power Supplies; Test Equipment and Measurements; Safety Precautions; Mathematics and Formulas; Electronic Circuits; Series and Parallel; Amplifiers; Interfacing of Electronics Products, Digital Concepts and Circuitry; Computer Electronics; Computer Applications; Audio & Video Systems; Optical Electronics; Basic Telecommunications; and Technician Work Procedures. The SET also has an optional hands-on component that can be used as a part of the training process and will be noted upon completion and passing of the SET examination.

Through a partnership with ETA, the Student Electronics Technician is administered by NOCTI. Please visit www.nocti.org for information on taking the SET as well as costs for the exam and optional hands-on component.
ETA CERTIFICATIONS

INFORMATION TECHNOLOGY

Computer Service Technician
Journeyman Option or Stand-Alone
CST — $75.00
The Computer Service Technician performs hardware servicing and provides systems software skills for personal computers. The knowledge used includes Computer Assembly/Disassembly; Motherboards; Buses; System Resources, Processor Characteristics; Physical and Electronic Memory Characteristics; Secondary Storage Devices; Peripheral Devices; Ports; Power Concepts and Supplies; Basic Networking; Portables; Digital Concepts; Troubleshooting/Preventive Maintenance; Operating Systems; File Management; Safety, Security and Workplace Practices.

Network Computer Technician
Journeyman Option or Stand-Alone
NCT — $75.00
Network Computer Technicians are expected to obtain knowledge of computer electronics basic concepts, Internet and networking technology applicable to various areas of the computer industry. More specifically, NCTs must be able to function, structure, operate, file manage, install, configure/upgrade, manage memory, diagnose and troubleshoot operating systems and hardware (including motherboard and processors and printers).

Network Systems Technician
Journeyman Option or Stand-Alone
NST — $100.00
A Network Systems Technician is a network professional who is expected to obtain knowledge of computer network basic concepts, applicable to the various specialty areas of the computer industry. The NST must be familiar with the following: Computer Network Terminology, Network Administration, Wide Area Networks and Devices Used to Extend Networks, Network Architectures, Computer Network Topologies and Classifications, Network Services, Network Operations, Network Standards, Troubleshooting LAN/WAN Test Equipment, Network Server and Workstation Computer System Hardware, Network Operating Systems, and Disaster and Security Planning for Networks.

Wireless Network Technician
Journeyman Option or Stand-Alone
WNT — $75.00
The Certified Wireless Network Technician is a network professional who is expected to obtain knowledge of the operation and maintenance of wireless networking concepts, RF and IR propagation and modulation technologies, applicable to all the various specialty areas of the wireless networking industry. Once the WNT has acquired these skills and knowledge, the technician will be able to enter employment in any part of the networking industry. With minimal training in areas unique to the specific products, the WNT should become a productive member of computer industry workforce.

ROLLOVER YOUR EXISTING IT CERTIFICATIONS!

CompTIA A+ Rollover to CST
If you hold a valid CompTIA A+ certification, then you are eligible for a rollover to an ETA CST certification! To apply, you will need to send a copy of your A+ certificate to ETA via fax (765) 653-4287 or email, and fill out the online form or printable form. A+ rollovers are $50. Lifetime CompTIA A+ certifications are not eligible for rollover.

CompTIA Network+ Rollover to NST
If you hold a valid CompTIA Network+ certification, then you are eligible for a rollover to an ETA NST certification! To apply, you will need to send a copy of your Network+ certificate to ETA via fax (765) 653-4287 or email, and fill out the online form or printable form. Network+ rollovers are $75. Lifetime CompTIA Network+ certifications are not eligible for rollover.

Visit www.eta-i.org to rollover your certification(s) today!
R56 Installer
Journeyman Option or Stand-Alone
R56 — $100.00
The R56 Installer is a non-Auditor certification, which validates examinees' knowledge of the core concepts required in the installation of a communications site, based on the R56 industry codes and standards. It should be attempted by installation contractors, service shops, project supervisors, project managers, site construction teams, and electrical contractors involved with communications site installation and construction. Examinees must complete a Motorola-approved Communications Site Installer (R56) training course.

Broadband-Voice over Internet Protocol
Stand-Alone
B-VoIP — $150.00
B-VoIP technicians are versed in telephone and Internet communications. They install, maintain, and repair/replace voice, data, and video over Internet Protocol equipment. They are capable of interconnecting B-VoIP equipment to local and wide area computer network systems. They are familiar with many acronyms used in the telecom industry. They are capable of performing cable installation, replacement/modernization and interconnection between different cable types and wireless equipment. They are knowledgeable in the protocols being used for the telecommunications industry. They are capable of configuring and provisioning B-VoIP equipment and transmission media.

Distributed Antenna Systems
Journeyman Option or Stand-Alone
DAS — $100.00
Distributed Antenna Systems (DAS) technicians and installers cover basic knowledge concepts of distributed antenna systems and antenna installation. This also includes service and skills applicable to all of the functions required to safely and completely install, maintain, troubleshoot and provide support of in-building distributed antenna systems, communications and electronic equipment.

Certified Satellite Installer
Journeyman Option or Stand-Alone
CSI — $75.00
CSI Endorsements — $60.00 ea. (A discount is available if all four are taken together at one sitting)
The exams are practical and cover a broad range of hardware and broadcast technology, but are not limited to specific brands of products. The CSI covers: Satellite Communications History & Theory, Satellite Dish Reflectors, Cabling, Amplifiers, Satellite Dish Feed—horns – LNBS & LNBFs, Satellite System Installation – Site Surveys, Satellite Receivers – Digital Technology, Interfacing With Other Consumer Electronics Equipment, Transmission – Internet Systems, Troubleshooting, Repairs, Sun Outage, and Safety.

Available CSI Endorsements:
- Antenna
- C and KU Band
- Commercial
- S-MATV

General Communications Technician — Level 1
Stand-Alone
GCT-LVL1 — $100.00
The General Communications Technician certification is a program that is modeled after communication systems basics and the U.S. Department of Homeland Security (DHS) guidelines covering all of the disciplines in the COMT program. The purpose of the GCT is to provide a study guide and training program, along with the appropriate certification testing that covers all of the areas a radio communications technician and engineer will encounter in the public safety communications or business/commercial radio field.

General Communications Technician — Level 2 *Prerequisite is the General Communications Technician — Level 1
Journeyman Option or Stand-Alone
GCT-LVL2 — $100.00
The General Communications Technician Level 2 certification is a program modeled after general industry communication systems encompassing more than the basics along with the U.S. Department of Homeland Security (DHS) guidelines covering all of the disciplines in the COMT program. The purpose of the GCT2 is to provide a certification program and testing that expands upon the coverage included in the GCT1 competencies. The GCT2 competency comprises more complex areas radio communications engineers and technicians will encounter in the public safety communications or business / commercial radio fields. This GCT2 certification will involve more knowledge of intricate skills and troubleshooting. The GCT program will require re-testing to renew every four years to keep current in the newest technology for all Levels.
Mobile Communications and Electronics Installer
Stand-Alone
MCEI-LVL1 — $100.00
This certification includes basic knowledge concepts of land mobile radio (LMR) and associated electronics equipment installation. This also incorporates required skills applicable to all of the functions required to safely and completely install mobile communications and associated electronic equipment, including removal and reinstallation.

Passive Intermodulation Testing
Stand-Alone
PIM — $125.00
Passive Intermodulation (PIM) is a form of interference where intermodulation mixing occurs within the confines of the transmission line and antenna network of a radio system. The ETA PIM certification assures site managers that quality antenna installation has taken place and meets the desired engineering and propagation standard for that site. The PIM test set operator knows how to use the testing equipment hardware, and can do so in a safe and harmless manner. Additionally, the ETA certification is based on the IEC 60237 standard covering the installation of antennas, connectors, jumpers, and related antenna network elements, allowing the holder of that certification to use any manufacturer’s test set at any frequency range. An ETA certified technician has a clear understanding of antenna theory and interference testing and will be well positioned to help resolve site PIM issues, so resolving these interference issues will be easier for the ETA-certified technician.

Personal Communication Service-Cellular
Journeyman Option or Stand-Alone
PCS-C — $75.00
A Personal Communication Service-Cellular examination will cover a variety of categories. A PCS—C must be familiar with: RF transmit, propagate and receive principles, Technical Procedures, Technical capabilities, Test Equipment, Knowledge of Components, Antennas, Frequency bands, Customer Relations, Safety, and Regulations.

Radar
Journeyman Option
RAD — $75.00
Radar electronics technicians are expected to obtain knowledge of radar basics and concepts, which are then applicable to various types of avionics, maritime, and land radar systems. Radar electronics technicians must be knowledgeable and have abilities in the following technical areas: Block Diagrams and Schematics, Components, Cabling and Antennas, Hand Tools & Soldering, Mathematics, Amplifiers, Radar Transceivers, Interfacing, Satellite, Wireless, Data Communications, Computers and Digital Concepts, Software-Programming, and Troubleshooting.

Radio Frequency Interference Mitigation
Stand-Alone
RFIM — $100
RF interference mitigation technicians are expected to obtain knowledge of radio frequencies, how they interact in the environment and within equipment, how to identify and to correct interference problems. Prior experience with radio systems and equipment is strongly suggested (or taking a RF Interference hunting course) before taking this certification exam.

TRN Wireless Communications Technician
Journeyman Option
TRN — $100.00
A wireless communications certification focused primarily on the private wireless industry. The TRN (formerly USMSS) is based on the Wireless Communications (WCM) competencies with the addition of areas related to LMR.

Telecommunications Electronics Technician
Journeyman Option or Stand-Alone
TCM — $75.00
Telecommunications electronics technicians are expected to obtain knowledge of wired and wireless communications basic concepts, which are then applicable to various types of voice, data and video systems. Telecommunications Electronics Technicians must be knowledgeable and have abilities in the following technical areas: Cables and Cabling, Analog Telephony, Equipment, Telecom Safety and Mathematics, Transmission Service Providers and Protocols, Distribution Methods, Computer, Digital Telephony, Interfacing, Internet, Network Infrastructures and Topologies, Office Wiring, Wireless Telephony, Test Equipment, Optical Wiring, and Troubleshooting.

Wireless Communications
Journeyman Option
WCM — $75.00
ETA Certifications

FIBER OPTICS, DATA CABLING, OPTICS & PHOTONICS

ARINC Installer, Technician
Stand-Alone
AFI, AFT — $175.00 ea.
ARINC organizes aviation industry committees and participates in related industry activities that benefit aviation at large by providing technical leadership and guidance. These activities directly support aviation industry goals: promote safety, efficiency, regularity, and cost-effectiveness in aircraft operations. ARINC recognizes ETA International as the fiber optics industry training certification entity in regards to the aerospace industry in the United States. The ARINC certification is based on the Society of Automotive Engineers (SAE) standards.

Data Cabling Installer
Stand-Alone
DCI — $150.00
ETA data cabling installers are expected to know the basic concepts of copper cabling installation and service—which are then applicable to all the procedures required to safely and competently install communications cabling. Basic electricity and safety; data communications basics; definitions, symbols and abbreviations; cable construction and types; cable performance characteristics; cabling standards; basic network topologies; basic network architectures; National Electric Code (NEC); cabling system components; DCI installation tools; connectors and outlets; cabling system design; cabling installation; connector installation; cabling testing and certification; cabling troubleshooting; documentation.

Fiber-Optic Inspection Evaluation and Cleaning
Stand-Alone
FIEC — $125.00
Fiber-Optic Inspection Evaluation and Cleaning technicians are expected to obtain knowledge of basic concepts of fiber optics inspection and cleaning disciplines which are applicable to all the functions required to safely and competently inspect, clean, evaluate, and terminate fiber optic transmission cable and connection devices. Additional competencies can be found in ARINC 805, section 5 documentation.

Fiber Optics Installer
Stand-Alone
FOI — $150.00
An ETA fiber optics installer has a general understanding of optical fiber installation, connectorization, splicing, and testing. He or she is also familiar with optical fiber, connector, and splice performance characteristics described in TIA/EIA-568B, ITU-T G.671, ITU-T G.652 and Telcordia GR-326. A fiber optic installer can perform connector endface evaluation as described in TIA/EIA-455-57B and is proficient in optical loss testing, as described in TIA/EIA-526-14A. He or she also understands the installation requirements described in articles 770 and 250 of the National Electrical Code (NEC). A fiber optic installer is proficient at the installation of connectors on various types of fiber optic cables, using various types of epoxies, and performing mechanical and fusion splicing.

Fiber Optics Installer — Journeyman Option or Stand-Alone
FOT — $150.00
A fiber optics technician has a full understanding of inside plant optical fiber, connector, and splice performance characteristics as described in TIA-568C and can use these performance characteristics to create a worst-case power budget for a fiber optic cable plant. An FOT can proficiently perform optical loss testing as described in TIA/EIA-526-14A and perform connector endface evaluation as described in TIA-455-57B. Using an OTDR, an FOT can effectively locate faults in a fiber optic cable, mated connector pair, or splice as well as evaluate optical fiber performance, mated connector pair performance, or splice performance for compliance with TIA-568C.

Fiber Optics Technician — Outside Plant
Journeyman Option or Stand-Alone
FOT—OSP — $150.00
A fiber optics outside plant technician must be able to properly terminate, test and troubleshoot single mode fiber optic communication systems. This includes various types of termination techniques applicable to high-speed laser-based systems including SONET, DWDM, FTTx, and CATV networks using ITU-T G.652 and G.655 single mode fibers. Disciplines include mechanical and fusion splicing per the TIA-758 standard and the preparation of fiber optic cables and cable management products. Technicians must also know testing and troubleshooting of each element of the fiber optic communication systems along with unique test requirements of SONET, DWDM, FTTx, and CATV networks.

SAE Fabricator
Stand-Alone
SFF — $175.00 ea.
For individuals involved in the manufacturing, installation, support, integration and testing of fiber optic systems. It is intended for managers, engineers, technicians, trainers/instructors, third party maintenance organizations, quality assurance and personal production. Both the SAE and ARINC certifications are based on the SAE standards.
Fiber Optics Designer
Stand-Alone
FOD — $150.00
The ETA 40 hour Fiber Optics Designer training program is an optical designer certification that will provide an in-depth knowledge of optical local area networks. This certification covers all aspects of a successful fiber optic system design from network protocols, network configurations, optical cabling, industry communications standards, determination of fiber count, hardware selection, splicing/termination methods, and cable system testing and documentation. All that is learned in class is put into practice through multiple and intensive case studies. The ETA-certified Fiber Optics Designer program provides detailed instruction and practice of Local Area Network fiber optic design.

Photronics Technician Operator
Stand-Alone
PTO — $200.00 (4 exams at $50/ea.)
Photronics technicians work in jobs where they assemble, measure, test, and repair optical components such as lenses, mirrors, filters, fiber optics, and electro-optic or other photronics devices plus optical sources such as lasers and light-emitting diodes (LEDs). Technicians typically work in applications where photronics is an “enabling technology”—manufacturing/materials processing, Internet/communications, biomedical equipment, and defense/homeland security systems development/integration. Due to the high technical standards and safety issues involved, technicians will receive specialized training in both knowledge and hands-on skill items.

Photronics Technician Specialist
Stand-Alone
PTS — $200 (4 exams at $50/ea.)
Photronics technicians work in jobs where they assemble, measure, test, and repair optical components such as lenses, mirrors, filters, fiber optics, and electro-optic or other photronics devices plus optical sources such as lasers and light-emitting diodes (LEDs). Technician specialists work in areas that utilize the skills and knowledge of the operator level, but also an additional higher level of optics, photonics physics, and technology and that require a greater variety of hands-on competencies in laser and optical components and systems. They typically work in applications such as the following: research and development laboratory; product development, test, and production specialists who are team members for original equipment manufacturers (OEMs) of lasers, optics, and photronics components and systems; field service specialists for OEMs or companies that manufacture and/or utilize lasers, optics, and photronics components and systems. They are graduates of AAS degree programs that focus specifically on optics, lasers and photonics.

Specialist in Precision Optics
Stand-Alone
SPO — $150 (3 exams at $50/ea.)
Precision optics specialists produce, test, and handle optical (infrared, visible, and ultraviolet) components that are used in lasers and sophisticated electro-optical systems for defense, homeland security, aerospace, biomedical equipment, digital displays, renewable energy production, and nanotechnology. SPOs also integrate precision optical components into these electro-optical systems and maintain them, including handling, storage and transport. SPOs will also have experience in shaping, polishing, and coating precision optics; using optical instruments; understanding procedures and guidelines for verifying optical component dimensions and tolerances. These technicians have a greater range of hands-on competencies and experience with fabrication and test a wider range of types of optics and optical coatings.

Technician in Precision Optics
Stand-Alone
TPO — $100 (2 exams at $50/ea.)
Precision optics technicians work in optical component fabrication technical areas in optical shops, optics manufacturers and in quality control departments (incoming and/or outgoing inspection) for organizations that incorporate precision optics into various systems. They must be able to examine the properties and uses of a variety of bulk materials; have experience in the use of equipment and procedures for shaping, polishing, and coating precision optics; and be able to use optical instruments, procedures and guidelines for verifying optical component dimensions and tolerances. They can also handle, store, and ship precision optical components. Precision optics technicians have the minimum required hands-on competencies and experience with fabrication and tests of fewer types of optics. Due to the high technical standards and safety issues involved, technicians will receive specialized training in both knowledge and hands-on skill items.

Termination and Testing Technician
Stand-Alone
TTT — $100.00
This certification covers knowledge to properly, terminate, connect, test, and troubleshoot IP-enabled voice/data/video cable and devices to each other. One of the key advantages to using Cat 5e/6/6a and fiber-optic cables and connectors for electronic security and voice/video/data installations is that these cable connections can be readily built using the proper tools and techniques, which are taught in the required course. This part of the training will emphasize the ETA challenge of being vendor-neutral and applying industry standards for terminations and cable performance. The knowledge gained by the examinees will be applicable to any vendor’s products within the scope of the technology studied. One of the primary principles of the network cabling standards is that if a cable is properly terminated and tested satisfactorily, then cable can be used to connect any proper device from any manufacturer. There are vendors making thousands of different devices, all of which can be readily connected to a network if the fiber, coax, and/or copper cable to be used is properly terminated and tested.
The ETA Renewable Energy Certification program includes a multi-level career path for installers, technicians, and integrators. For installer/technicians:

- Level I requires a test in a specialty area consisting of a written and hands-on component (Level 1 installers must work under a qualified supervisor).
- Level II requires the ETA Electronics Module 1 (DC) and Electronics Module 2 (AC) exams, as well as an advanced test in the area of specialty that includes both a written and hands-on component. Individuals must have twelve months of documented experience working in the field.
- Level III requires the ETA Electronics Module 4 (Digital) exam and 36 months of documented experience working in the field. Individuals must pass a comprehensive test that includes not only the technical competencies, but management and standards as well.

*Note: Schools may train at Level 1, but individuals applying for Levels II & III must have on-the-job experience.

Electric Vehicle Technician
Stand-Alone
EVT — $200.00

Electric Vehicle Technicians (EVTs) work on vehicles powered solely by electricity. They perform routine maintenance like other mechanics; however, EVT must have extensive knowledge of how lithium-ion batteries and automotive systems interact. In addition, they may replace hydraulically assisted systems with electric-powered systems, such as power-steering pumps or air-conditioning compressors, to improve fuel economy.

Certification is for individuals interested in attaining training from an ETA® International-approved EV school. In this program students will develop skills in safety, troubleshooting and repairing of Electric Vehicles. Due to the high voltage (300 VDC and above) and safety issues involved, technicians are required to receive specialized training in both knowledge and hands-on skill items.

Photovoltaic Installer — Level 1
Stand-Alone
PVI-LVL1 — $150.00

The Photovoltaic Installer Certification provides assessments in solar system installations. Individuals must have hands-on training from an ETA-approved school and be knowledgeable in topics such as solar resources and principles; selection identification; proper installation sequence, performance characteristics and troubleshooting methods; permitting best safety practices; and economical impact.

Small Wind Installer
Stand-Alone
SWI-LVL1 — $150.00

The ETA International Small Wind Installer Certification provides practical assessments in wind power energy generation under 100 kW. Hands-on training from an ETA-approved school is necessary and individuals should be educated in the following topics including the theory of wind energy and electrical generation; site evaluation; design and selection of wind systems; proper installation, components and troubleshooting methods; safety; finance; and environmental assessment and management.

Biomedical Electronics Technician
Journeyman Option
BMD — $75.00

Biomedical electronics technicians are expected to obtain knowledge of the principles of modern biomedical techniques, the proper procedure in the care, handling, and maintenance of biomedical equipment and to display an attitude/behavior expected of an electronics technician who works in a hospital or healthcare environment.

Biomedical Imaging Equipment Technician
Journeyman Option or Stand-Alone
BIET — $75.00

A BIET should be familiar with the following topics: Anatomy, Medical Terminology, Computer, Electro/Mechanical Safety, Picture Archive Communication System, Diagnostic Ultrasound Equipment, Building Wiring, Basic Radiographic Equipment, Film Processing, Test Equipment, Magnetic Resonance Imaging, Computed Tomography, Nuclear Medicine, Codes and Regulations, Troubleshooting, Radiation Safety, Radiation Physics, and Linear Accelerators.
ETA has proudly served as an FCC COLEM (Commercial Operator License Examination Manager) since 1993 when the administration of these licenses was privileged. You can read more about the FCC and its programs at www.fcc.gov

Commercial Radio Operator Licenses
FCC Licenses are required by law to operate and maintain many types of communications equipment. The broadcast, aeronautics, and maritime industries are the primary employers of commercial license holders, although many other fields now require FCC licenses. New technologies are evolving which need qualified technicians and operators to comply with procedures and rules needed to bring order to the world communications maze.

Marine Radio Operator Permit (MROP) — Element 1
This is required to operate radiotelephone stations aboard certain vessels that sail the Great Lakes. It is also necessary to operate radiotelephone stations aboard vessels of more than 300 gross tons and for vessels which carry more than 6 passengers for hire in the open sea or any tidewater area of the United States, and it is also mandatory to operate certain aviation radiotelephone stations and certain coast radiotelephone stations.

General Radiotelephone Operator License (GROL) – Elements 1 & 3
This is required to adjust, maintain, or internally repair FCC licensed radiotelephone transmitters in aviation, maritime, and international fixed public radio services. It conveys the operating authority of the MROP. It is also required to operate maritime land radio stations and voluntarily equipped ship and aeronautical stations.

Global Maritime Distress and Safety System Operator License (GMDSS-O) – Elements 1 & 7
This qualifies personnel as Global Maritime Distress and Safety System (GMDSS) radio operators for the purposes of operating GMDSS radio installations, including some basic equipment adjustments. It also confers the operating authority of the MP. Also offered at ETA: GMDSS, restricted license for recreational vessels 10—20 miles from shore. This is a voluntary license.

Global Maritime Distress and Safety System Maintainer License (GMDSS-M) – Elements 1, 3, & 9
This qualifies personnel as GMDSS radio maintainers to perform sea repair and maintenance of GMDSS equipment. It also confers operating authority of the PG and MP.

Radiotelegraph Certificate
The T3 authorizes operation of certain coast radiotelegraph stations. It also confers the operating authority of the MROP. The T2 authorizes holder to operate, maintain, and repair ship and coast radiotelegraph stations in the maritime services. It confers operating authority of the T3, MP, and Restricted Radiotelephone Operator Permit. The T1 is required only for those who serve as the chief radio operator on a United States passenger ship. It conveys all the operating authority of a T2, T3, MP, and Restricted Radiotelephone Operator Permit.

Ship Radar Endorsement – Element 8
Only persons whose commercial radio operator license bears this endorsement may repair, maintain, or internally adjust ship radar equipment. To qualify, you must hold or qualify for a PG, DM, T1, or T2, as well as pass the written examination.

One element — $50.00
Any two elements taken together — $50.00
Any three elements taken together — $70.00
Additional elements taken at same sitting — $20.00
License Renewals — $80.00

Certifying Today’s Technician in Tomorrow’s Technology!
Certified Alarm Security Technician
Journeyman Option or Stand-Alone
CAST — $75.00
Alarm-Security technicians must be able to identify and describe the operations of alarms and have basic understanding of technology and its configuration, fiber optics—telecommunications, software, and computers and locks. The CAST will be able to explain, understand, and use block diagrams and schematics, digital concepts, software, hand tools—soldering, data communications, and cameras and intercoms.

Electronic Security Networking Technician
Journeyman Option or Stand-Alone
ESNT — $100.00
The ESNT was developed for technicians who have gained knowledge and skills needed to properly cable, connect, install, program, and troubleshoot IP-enabled security devices onto local area networks and the Internet. This certification is an acknowledgement of the examinee’s familiarization and understanding of the hardware and theory of operation of this medium. It is a stand-alone certification that can also be used as a Journeyman option.

Residential Electronics Systems Integrator
Stand-Alone
RESI — $75.00
RESI Endorsements — $75.00 ea.
Residential Electronics Systems Integrator is a professional certification for those who design and oversee the installation and integration of electronics systems in residences and light commercial buildings. The objective of the Integrator is to produce a residential or light commercial electronics systems package that will allow all data, control, and communication signals to be integrated at the premise controller and converged into one secure cohesive communication stream, to either be used within the premise or to be passed back and forth through the gateway. The Integrator should be proficient in the many protocols used over diverse media to communicate with and control residential and light commercial electronics systems.

Available RESI Endorsements:
- Audio-Video
- Computer Networking
- Switch Closed Circuit TV
- Security-Surveillance
- Environmental Control

Master Residential Electronics Systems Integrator
Stand-Alone
RESIma — $75.00
The MASTER RESI certification prerequisites include successfully completing the core RESI certification requirements plus holding each of the five RESI endorsements.

ETA Certification offers higher-level certifications for technicians who exhibit exceptional skill in their field(s). These are for technicians with six or more years of experience who want to show their dedication to their profession and value to their employer/customers.

Senior Technician:
A technician with six or more years of combined work and electronics training may apply for the Senior level certification. To be a Senior Certified Electronics Technician (CETsr), an entire certification exam must be passed (which consists of the Associate level exam plus one of the specialized Journeyman options). This exam deals with advanced practice and theory applicable to the electronics specialty selected. The applicant must score at least 85% on the Journeyman portion to pass. The Senior level certification is intended for, but not limited to, the professional electronics service technicians, technician-managers, consultants, and electronics educators who have been active in the industry for six or more years. www.eta-i.org/senior_master.html

Master Technician:
A technician with six or more years combined work and electronics training may be eligible for the ETA Master Certified Electronics Technician (CETma) certification. The Master certification was created to showcase those technicians who are able to demonstrate proficiency in the many fields of electronics. In addition to the Associate level certification, one must successfully obtain six other certifications, with no more than two originating from the same specialized category, in order to qualify. All certifications must be current. Passing score on all ETA exams is 75% or higher. The Master level certification is designed for, but not limited to, professional electronics service technicians, technician-managers, consultants and electronics educators. This is the highest level of ETA certification available. www.eta-i.org/senior_master.html
ADDITIONAL ETA CERTIFICATIONS

Avionics
Journeyman Option
AVN — $75.00
The avionics specialty is designed to assess the knowledge and skills of individuals who install, maintain and adjust electronics equipment, cabling and the accessories used in aviation communications and control equipment. An FCC GROL is also highly recommended for this work. Several of the topics covered in this examination include: Avionics Systems, Cabling, Computers and Digital Concepts, Amplifiers, Interfacing, Antennas and Transmission Lines Components, Mathematics, Network Topologies and Infrastructures, People Relations, Optical Cabling, Safety, Test Equipment and Tools and Satellite Communications.

Commercial Audio Technician
Journeyman Option
CAT — $75.00
The Commercial Audio Technician (CAT) is a certification for sound system technicians who need to design, install and troubleshoot speech and music sound systems in commercial and institutional environments. Commercial Audio Technicians must be knowledgeable in Acoustics, Microphones, Speakers, Sound & Measurements, Wiring, 70-Volt Systems, Troubleshooting, Safety, and Codes and Standards.

Customer Service Specialist
Stand-Alone
CSS — $75.00
The Customer Service Specialist (CSS) is a certification that validates one’s work readiness skills through employability concepts. Though developed to meet the role of an evolving service oriented electronics technician, CSS is relevant to every industry, employer and employee. Topics included are Safety, Ethics, Respect, Teamwork, Communication, Telephone and E-mail Techniques, Social Media, Problem Solving, Interpersonal Relationships, and Sales and Marketing.

Gaming and Vending Technician
Stand-Alone
GVT — $100.00
The Gaming and Vending Technician (GVT) certification is intended for entry-level technicians with a sound background in electronics. Technicians will work in the field to troubleshoot, repair and calibrate gaming and vending type equipment. Money handling, basic electrical, circuitry, computer hardware and software, and safety are topics included in this certification. The GVT is a stand-alone certification and must be maintained every four years.

Industrial
Journeyman Option
IND — $75.00
Industrial journeyman-level electronics technicians are expected to obtain knowledge of industrial electronics basic concepts, which are then applicable to all the various specialty areas of industry. Industrial Electronics Technicians must be knowledgeable and have abilities in the following technical and human relations areas: Amplifiers, Optical Wiring, Block Diagrams-Schematics, Power Supplies, Test Equipment-Tools, Mathematics, Computers-Digital Concepts, Safety, Satellite-Wireless-Data, Communications, Cabling, Troubleshooting, Motors, Programmable Logic Controllers, and Software.

Certified Service Manager
Stand-Alone
CSM — $150.00
This is a valuable examination for those who serve as managers, owners or department heads of service businesses such as electronics, computer, communications and appliance repair facilities. Several of the topics covered in this examination include: Manager Responsibilities and Objectives, Personnel Profiles and Job Descriptions, Team Building, Training, Hiring and Employment Laws, Employee Compensation Systems, Customer Relations Policies and Skills, Service Policies, Service/Production Area Development, Test Equipment Needs and Procurement, Financial and Parts Department Management, Warranties and Risk of Liability, Contract Negotiation, Vehicle Procurement and Maintenance, Association Memberships/Involvement, Quality Systems, Security, Safety/OSHA, and Project Management.

Line & Antenna Sweep
Journeyman Option or Stand-Alone
LAS — $100.00
This Frequency Domain Reflectometer (FDR) certification includes hands-on testing and verification of line and antenna sweeping skills using modern FDR equipment, as well as a written exam. The LAS is a stand-alone certification, but it can be used as a Journeyman CET option when the Associate, or basic electronics, is also passed.

Radio Frequency Identification Technical Specialist
Journeyman Option or Stand-Alone
RFID — $100.00
This certification is intended for an electronics technician with an understanding of RFID. The technician should have a basic understanding of the hardware and theory of operation of radio communications as it applies to RFID radio transceiver technology. RFID is a stand-alone but can be used as a Journeyman option when the Associate exam is also taken and passed.
# ETA Membership

## Who Can Join?
If you plan to or are currently working in any technical or related business area, then you are eligible to join ETA. Students, instructors, technicians, trainers, distributors, company owners, military personnel, and certified technicians all hold membership in ETA. Now you can too! ETA International offers six types of membership: individual, student, institutional, master, retiree, and lifetime. All memberships are good for one year with the exception of the lifetime and two-year individual options. Each will receive a wallet card and wall certificate. You can view more information at [www.eta-i.org/membership.html](http://www.eta-i.org/membership.html).

## Individual:
**Price: $40.00 Domestic / $55.00 International per year**
Members of ETA receive a subscription to the *High Tech News (HTN)*, ETA’s bi-monthly publication and discounts on ETA study materials, merchandise, and the Career Resource Center, in addition to access to the “Members-Only” site that includes free practice exams, HTN archives, and many other exclusive materials.

## Student:
**Price: $20.00 Domestic / $35.00 International per year**
Student memberships apply to those who are enrolled at state and commercial electronics training institutes or in correspondence and military courses. Students also receive the same benefits as those who are individual members of ETA in addition to assistance in developing a successful career. ETA offers professionals help in improving their resumes and other materials needed by employers.

* Student ID or current course schedule is required.

## Institutional (Includes 4 Individual Memberships):
**Price: $250.00 Domestic / $350 International per year**
Hardware manufacturers, public and private educational institutions, service providers, and affiliated groups can have a voice as an institutional member with ETA. Institutional memberships enjoy the same benefits as individual memberships.

## Master CET:
**Price: $25.00 Domestic / $45.00 International per year**
You’ve earned distinction within the industry by becoming a Master Certified Electronics Technician (CETma). ETA can help you connect with other professionals from around the world to discuss issues, share experiences, and learn from one another. In addition, your membership gives you access to our members-only technical publications, seminars, workshops, newsletters and special services, in the same way as the individual membership.

## Retiree:
**Price: $10.00 Domestic / $30.00 International per year**
If you have retired, and would like to stay involved in your industry, then an ETA retiree membership might be right for you. These memberships offer the same benefits of an individual membership, but at a reduced cost.

## Lifetime:
**Price: $500 Domestic / $1,000 International**
If you would like a lifetime membership with no annual renewals at a great discount, then this is the option for you! Included are all of the perks of the individual membership plus the satisfaction of knowing you are supporting your industry with a lifetime commitment to ETA.

## BENEFITS

<table>
<thead>
<tr>
<th>Member Benefit</th>
<th>Non-Member</th>
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<tbody>
<tr>
<td><strong>The <em>High Tech News</em>, ETA’s bi-monthly magazine, full of industry news, certification information and technical tips</strong></td>
<td>FREE</td>
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<td>Discount on registration fees</td>
</tr>
<tr>
<td><strong>Innovation &amp; Tech Today magazine</strong></td>
<td>FREE (contact ETA for details)</td>
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### FREE:
- Online Practice Exams
- Career Resource Center
- The *High Tech News*
- Innovation & Tech Today magazine

### Members Only:
- Study Materials
- Discounted rates for ETA’s annual convention
- Resume and Job Postings
- Innovation & Tech Today (contact ETA for details)
Where are ETA-Certified Individuals?

In 2014 alone, technicians at the following companies chose to become certified through ETA International. This list does not include the thousands of students in electronics-related industries who also became ETA-certified in 2014.
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Service Type</th>
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<tbody>
<tr>
<td>Fostering Excellence Through Certification Since 1978</td>
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</tbody>
</table>
New York Communications Co Inc
New York University
Newfield Design Inc
Nex-Tech Inc/Hays
NextEra Energy
Neptune Information
Nicholas Brothers
Nitec Radio Communications CC
Niels Fugl and Sons LLC
Nilson Asato
Noranda
Nordic Made Inc
Norfolk Naval Shipyard
Norfolk Public Schools
North Carroll County
North Johnston High School
North Pacific Seafords
North Shore Technical Com
North Slope Borough
Northeast Alabama Community College
Northeast Comm (formerly Royal Comm)
Northeastern Communications
Northeastern Communications Inc/Naugatuck
Northeastern Communications Inc/Windsor
Northland Controls
Northrop Grumman Corporation
Northshore Technical College
Northwestern Communications Inc
NRAO/AUI
NSSA RMC
NSWC PMO
NSWDG
NTI
NTMWD
Nuclear Waste Partnership
NW Communications Inc
Ocean Geo
Oceanering
Oceanering High Perform
OEMO
Ohio Department of Transportation
Ohio Telecom
Old Colony RYHS
Oligopin Communications Security
Olympic Communications Inc
Optic Energy Australia
ORCA Communications
Oregon Department of Transportation
Osceola Co JCC
Ossipee Mountain Electronics Inc
OSIS
Otterbox
Ottumwa Job Corps Center
Owens Communications Inc/Bozeman
Owens Communications Inc/Columbus
Owens Communications Inc/Lexington
Owens Community College
Owens Valley Career Development
P & R Communications service Inc/Wayland
P & R Communications service Inc/Oregon
P and R Communications
Pacific Amusement Inc
Pacific Bell Telephone Co
Pacific Communications
Pacific PI
Pacific Wireless Communications LLC/Honolulu
Pacific Wireless Communications Inc/Kahului
Paragon Off Shore
Parallel Technologies
Parish Manufacturing
Parkway Co of America
Parson’s Technologies
Pathways
Paul Tang
PCMC
PCT Communications
Pearl River Community College
Pell Regional Police
PEN All Fire Extinguisher
Pennsylvania General Energy
Penitium Electronics and Technical Training
Peoples Telecom
Perimeter Security Group
Petersburg High School
Petro Communications
Petro Star Inc
Pettty’s Electronics
Phase 4 Design Inc
Phoenix Security
PIA Optical Laboratory
Pickerington Local School District
Pierce County
Pierce Transit
Piller Innovations
Pine Ridge Services
Pine Telephone Systems Inc
Pinellas County Government
Pinnacle Wireless USA Inc - Fair Lawn
Pioneer Communications
Pittsburgh Technical Institute Boyd School
Pittsburgh Technical Institute
Pittsfield Communications Systems Inc/Pittsfield
Platte Valley Comm of Kearney/Kearney
Platte Valley Communications/York
Polaris Inc
Ponce School of Medicine
Port Authority of Guam
Pottawattamie County 911 Center
Power Secure
PFG Aerospace
PRICE Precision
Precision Contracting Services-Fiber
Precision Contracting Services-Nitrogen
Precision Linking
Premier Constructors Inc
Premier Electrical Corp
Prepa Networks
Pride Enterprises
Primrose Schools
Princeton University
PKU-TEL Design
Polycom Alcatel Lucent/Line-Rights
Projector Doctor Inc.
Protection One
Providence Construction
Pulco
Music Works Covite Inc
Pulau Corp
Purosky & Luckerman Inc
QDS Communications Inc
Qualcomm Inc
Queens Medical Ctr
R & P Technologies
R & F Design & Integration
K-Tomm Innovations/Layfayette
K-Tomm Inc/terre Haute
Radio Lomm service Inc/deadstone
Radio Lomm service Inc/oreum
Radio Communications of Charleston Inc
Radio Communications of Virginia/Glen Allen
Radio Communications Inc/Summit
Radio Communications Sys Inc/Louisville
Radio Maintenance Inc/Reading
Radio One Inc
Radio Resource Inc
RadioShack
Radiophone Engineering Inc/Springfield
Radios Unlimited/aptive Wireless
Radioworks Communications Inc/Lumico
Randall lower tech inc
Randenigh High School
Rayfield Communications Inc
Rayheij Technical Services
RCN Television
REC Solar
Regal Entertainment Group
Regional Communications Inc
Regens Bank
Remote Audio Video
RPM Light electric
Rosennor Enterprises Inc dba Magnum Electronics
River Valley Radio
Rivera Utilities
Roanoke Rapids Graded Schools
Roger’s Two Way Radio
Rosendih Electric Inc
Roy Walker Communications/Makanda
RRI
RTC Inc
RTI
Russell Electric
RXL Communications
Ryan Electronics Inc/Saratoga
RZ & Associates Inc dba RZ Communications/Austin
S & T Communications
S & T Technologies
S & P Communications
SA Recycling
Safeguard Security
Sail Communications Inc/Buffalo
SAIC
Salimp America Inc
Salt Lake Community College
San Diego County Water Authority
San Marino Gaming Commission
San Marino Roof Co
SASCO
Satellite Systems Solutions
Salventures Management
Savannah Comm & Elect
SC Communications LLC
Scallon Controls
Schlumberger LTD
School Board of Highlands
Science Applications International
Scientel Wireless LLC/Honolulu
SDI International
Sea Corp
SeaBotix
Seacoast Advanced Product
Seagard Americas
Seaport Golf Operations
Seaport Corporation
SECO
Security Mission Solutions
Security Controls
Security Control Systems
SEDA SAS
Selco
SEPTEA (Railroad)
sequia Electronics LLC
SBC Inc
Sharp Communication Inc
Sheboygan County
Shenandoah Communications Inc
Sherrif S Offic3e
Shreveport Comm dba Arktik-lex Two Way
Shreveport Lomm dba Monore Communications
Shreveport Communication Service Inc
Shrewsbury Light & Cable
Siala Technology Group
Sierra Comm Southwest Inc
Sierra Electronics Corp/Sparks
Signal Technologies
Signature Government Solutions
Sikes Radio Co Inc
Sierra Star Communications
Simplex Grinnell
SM Industrial Kano
Skycasters LLC
Skynave Communications Inc
Smart House
Smart SunGuide RTMC
Smith Two-Way Radio Inc/Fayetteville
SNC Lavallin
SOL ALLGIG.COM
Solar Energy
Solvent Security
Solusia Services LLC
Sonoco Inc/LLY
Sonotec Medical LLC
Sonora Lactalis Inc
South Arkansas Telephone Company
South Carolina Dept of Transportation
Southall Regional Maintenance Center
Southern Eagle LLC
Southern Light LLC
Southern Star Inc
Southwest Texas Telephone Co
Southwestern Electric
Southwestern electrical Contracting
Southwestern Power Admin
SCTI
Spectrum Telecom
Spectrum Communications Ltd
Spectrum Surveying & Engineering
Spiral Communications
Sparton Aeronetics Inc
Sparton Community College
Springville Co Op Telephone
SRA International
St Helena Hospital Napa Valley
St Louis Community College
Staley Communication Inc/Pittsburgh
Stanly County Schools
Staples
State Electric Supply
State of Alaska
State of California
State of California CES/PSC
State of Michigan
State of Nebraska
State of New Mexico
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Stone Electric Co Inc
<table>
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<td>Fostering Excellence Through Certification Since 1978</td>
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