

YOUR CERTIFICATION ADVANTAGE

ETA Fiber Optics, Photonics & Data Cabling Certifications



Fiber Optics, Photonics, and Data Cabling professionals holding an ETA certification can be found worldwide as consultants, designers, technicians, installers, managers and supervisors. Fiber Optics, Photonics, and Data Cabling technology is at the center of businesses, government, military, organizations, and educational institutions. Being certified as an ETA FO/PO/DC professional gives you the competitive edge in a truly exciting and rewarding industry.

**Join the over 40,000 already
ETA Fiber Certified!**

Certified Fiber Optics Installer

Fiber Optics Installers are expected to obtain knowledge of basic concepts of fiber optics installation and service which are applicable to all the functions required to safely and competently install fiber optics communications cabling. Once a Certified Fiber Optics Installer has been tested on their skills, abilities and knowledge, he or she should be able to enter employment in the telecommunications cabling field. With minimal training in areas unique to the special requirements of individual products or systems designs, the Fiber Optics Installer has the tools to be a profitable and efficient part of the workforce. FOI - \$150.00

Certified Fiber Optics Technician

Fiber Optics Technicians are expected to obtain knowledge of fiber optics concepts that will allow them to be involved with designing, configuring, installing, and maintaining fiber optics systems. Technicians will also be able to test and troubleshoot a Local Area Network (LAN) system with various faults. This certification is designed for technicians, system analysts, design engineers, managers, telecommunications professionals, fusion splicers, mechanical splicers, end users, etc. The prerequisite for the Fiber Optics Technician certification is the Fiber Optics Installer, or equivalent work experience. FOT - \$150.00

Certified Fiber Optics Technician- Outside Plant

The Fiber Optics Technician-Outside Plant certification is designed with special emphasis on outside plant applications and standards. A FOT-OSP must be able to properly terminate, test and troubleshoot singlemode fiber optic communication systems. This includes various types of termination and troubleshooting techniques applicable to high speed laser based systems. Disciplines include mechanical and fusion splicing per the TIA-758 standard and the preparation of fiber optical cables and cable management products. Testing roles include optical loss testing of transmission equipment and fiber spans per the TIA-526-7 standard along with an understanding of OTDR theory and skills including acceptance testing and troubleshooting of fiber optic elements and spans. The FOT-OSP should have a basic understanding of the National Electrical Safety Code (NESC) and the National Electrical Code (NEC) and all safety conditions specific to the outside plant environment and the applicable transmission equipment. FOT-OSP - \$150.00

Certified Fiber Optics Designer

The Electronics Technicians Association (ETA) Certified 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 optics 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. FOD - \$150.00

Certified Data Cabling Installer

Data cabling installers are expected to obtain knowledge of basic concepts of copper cabling installation and service, which are then applicable to all the functions required to safely and competently install communications cabling. Once a Data Cabling Installer has been tested on their skills, abilities and knowledge, he or she should be able to enter employment in the telecommunications cabling field. With minimal training in areas unique to the special requirements of individual products or systems designs, the Data Cabling Installer should become a profitable and efficient part of the workforce. DCI - \$150.00

Certified Aerospace Fiber Optics Fabricator ARP5602/3 and ARP5602/4

The Aerospace industry has always required the highest standards of workmanship to be maintained. This certification is universally recognized for competency, ability, and knowledge as an Aerospace Fiber Optics Fabricator. To be recognized for this honor, practicing fabricators must demonstrate the necessary skills and knowledge verifying their proficiency in aerospace Fiber Optics Fabrication procedures and technology as defined in SAE Aerospace ARP5602/3 and ARP5602/4.



To take an ETA Fiber Optics, Photonics, or Data Cabling exam, a candidate must present documentation that he or she has completed on the selected courses at an ETA-approved training facility and has passed the "hands-on" Skills Testing.

Become an ETA approved training facility or view the complete list of those already approved at: www.eta-i.org/course_approvals.html.

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Photonics Technician Operator

Photonics Technician Operators work in jobs where they assemble, measure, test, and repair optical components such as lenses, mirrors, and filters and optical sources such as lasers and light-emitting diodes (LEDs). At the Operator Level Photonics Technicians typically work in applications where photonics is an “enabling technology” such as manufacturing/materials processing, internet/communications, biomedical equipment, and defense/homeland security systems development/integration. They set up, calibrate, operate, monitor, maintain, and sometimes repair equipment containing lasers, optics, fiber-optics and/or electro-optic or other photonics devices that are being used in their organization.

PTO - \$200.00 (\$50 for each exam)

*This certification requires 4 separate exams

Photonics Technician Specialist

Photonics Technician Specialists are expected to possess the skills and knowledge of the Photonics Technician Operator, but also require a higher level of knowledge of optics and 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 techs; product development, test, and production techs who are team members for original equipment manufacturers (OEMs) of lasers, optics, and photonics components and systems; field service techs for OEMs or companies that manufacture and/or utilize lasers, optics, and photonics components and systems.

PTS - \$200 (\$50 for each exam)

*This certification requires 4 separate exams



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Technician in Precision Optics

Technicians in Precision Optics work in the technical area of optical component fabrication in optical shops for optics manufacturers, and in quality control departments (incoming and/or outgoing inspection) for organizations that incorporate precision optics into various systems. They must understand and 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 they use optical instruments, procedures and guidelines for verifying optical component dimensions and tolerances. They can also handle, store, and ship precision optical components. These technicians have the minimum required hands-on competencies and experience with fabrication and test fewer types of optics.

TPO - \$100 (\$50 for each exam)

*This certification requires 2 separate exams

Specialist in Precision Optics

Specialists in Precision Optics are expected to possess the skills and knowledge of the Technician in Precision Optics, but also possess a greater range of hands-on competencies and experience with fabrication and test a wider range of types of optics and optical coatings, including a higher level of knowledge optics principles and technologies.

SPO - \$150 (\$50 for each exam)

*This certification requires 3 separate exams

How To Take an ETA Certification Examination(s)

1. Decide which ETA certification(s) you would like to take.
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.etai.org/TestSites.html, or contact ETA at 800.288.3824. If a test site is not close to you, then you may have a library proctor your exam.
3. Decide whether to take the exam online with Freedom-Test or on paper. *Note: A Certification Administrator must be present regardless of which test format is chosen.*
4. Arrange a time to take the exam with the chosen Certification Administrator.
5. Arrive early with the proper materials to take the exam. You may only bring scratch paper and a non-programmable calculator to the exam. You will be given two hours per exam if needed. Photo ID required.
6. Once completed, the Certification Administrator will submit your exam and information along with payment. If you test on FreedomTest, then you will be able to view your score(s) immediately.
7. Examinations are processed within 7-10 days of arrival at ETA headquarters. However, scores may be requested online through the ETA website.