

505-2-.90 TRADE AND INDUSTRIAL EDUCATION

(1) Purpose. Trade and Industrial Education is one part of the larger area of education curriculum known as Career, Technical and Agricultural Education (CTAE). Trade and Industrial Education certification is based on a combination of occupational experience, industry licensing and assessments, and formal study. Upon the receipt of an Induction certificate, the educator must affiliate with and complete a GaPSC-approved CTAE program offered as New Teacher Institute (NTI) or Georgia Teacher Academy for Preparation and Pedagogy (GATAPP) programs in order to convert to the Professional certificate.

(2) Areas of Specialization. The following are Trade and Industrial Education areas of specialization:

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| a. Architectural Drawing and Design | n. Graphic Communications & Design |
| b. Audio/Video Technology & Film | o. Information Technology |
| c. Automotive Service Technology | p. Junior Reserve Officer's Training Corps (JROTC) |
| d. Aviation | q. Manufacturing and Engineering Sciences |
| e. Barbering | r. Marine Service Technology |
| f. Collision Repair | s. Nails |
| g. Construction | t. Precision Machine Technology |
| h. Cosmetology | u. Law, Public Safety, Corrections and Security |
| i. Culinary Arts | v. Sheet Metal |
| j. Distribution & Logistics | w. Welding Technology |
| k. Electronics Technology | |
| l. Esthetics | |
| m. Granite Technology | |

(3) Requirements for Induction Certification. Induction certificate eligibility requirements for each area of specialization are listed below with the exception of Junior Reserve Officer's Training Corps (JROTC). JROTC eligibility requirements are outlined in GaPSC Rule 505-2-.10 PERMIT. Some areas, not all, include an option for a three (3)-year Induction certificate that, at the request of an employing local unit of administration (LUA), may be issued to individuals who do not yet meet industry testing or licensure standards. These individuals will have three (3) years to complete the industry testing or licensure standards and all other requirements as outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3).

(a) Architectural Drawing and Design:

1. Option 1:

(i) Hold a technical college diploma or higher from a GaPSC-accepted accredited institution in drafting; drafting technology; architecture; industrial design; civil engineering; or a GaPSC-determined equivalent; and

(ii) Have at least two (2) years of occupational work experience in the field.

2. Option 2:

(i) Hold a high school diploma or GED equivalent or higher;

(ii) Pass both the Written and Performance portions of the [NOCTI](#) Job Ready Assessment in [Architectural Drafting](#); and

(iii) Have at least two (2) years of occupational work experience in the field.

3. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(b) Audio/Video Technology & Film:

1. Hold an associate's degree or higher from a GaPSC-accepted accredited institution in broadcast and video production; communication; mass communications; or a GaPSC-determined equivalent; and

2. Have at least two (2) years of occupational work experience in the field.

(c) Automotive Service Technology:

1. Hold a high school diploma or GED equivalent or higher;

2. Hold valid certification from the National Institute for Automotive Service Excellence ([ASE](#)) in one of the following:

(i) [Automobile & Light Truck Certification \(Series A\)](#), in all four of the areas of: Suspension and Steering (A4); Brakes (A5); Electrical/Electronic Systems (A6); and Engine Performance (A8); or

(ii) [Auto Maintenance and Light Repair Certification \(Test G1\)](#); and

3. Have at least two (2) years of occupational work experience in the field.

4. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(d) Aviation:

1. Aviation Maintenance:

(i) Hold a high school diploma or GED equivalent or higher;

(ii) Hold valid [airframe and power plant mechanic certificates](#) from the Federal Aviation Administration (FAA); and

(iii) Have at least two (2) years of occupational work experience in the field, as determined by the GaPSC.

2. Flight Operations:

(i) Option 1:

- (I) Hold a bachelor's degree or higher from a GaPSC-accepted accredited institution;
- (II) Hold a valid FAA pilot certificate (private, commercial, or airline transport [ATP]); and
- (III) Have a minimum of three hundred (300) hours of logged flight time as a Pilot in Command (PIC).

(ii) Option 2:

- (I) Hold a bachelor's degree or higher from a GaPSC-accepted accredited institution;
- (II) Hold a valid FAA ground instructor certificate; and
- (III) Have given a minimum of three hundred (300) hours of ground training as an FAA certified ground instructor.

(iii) Option 3:

- (I) Hold a bachelor's degree or higher from a GaPSC-accepted accredited institution;
- (II) Hold a valid FAA flight instructor certificate; and
- (III) Have given a minimum of two hundred (200) hours of flight training as an FAA certified flight instructor.

(iv) Option 4:

- (I) Hold a bachelor's degree or higher from a GaPSC-accepted accredited institution; and
- (II) Have a minimum of two (2) years of occupational work experience in a field related to flight operations or aviation instruction, as determined by the GaPSC; or
- (III) Have verified military experience equivalent to Option 1, 2, or 3 above, as determined by the GaPSC.

(e) Barbering:

1. Hold a minimum of a high school diploma or GED equivalent;
2. Hold a valid Barber license issued by the [Georgia Board of Barbers](#); and
3. Have at least two (2) years of occupation work experience in the field.

(f) Collision Repair:

1. Hold a minimum of a high school diploma or GED equivalent;
2. Hold valid certification from the National Institute for Automotive Service Excellence ([ASE](#)) in the [Collision Repair and Refinish Certification Series](#) in the areas of: Painting and Refinishing (Test B2) and Non-Structural Analysis and Damage Repair (Test B3); and
3. Have at least two (2) years of occupational work experience in the field.

4. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(g) Construction: Carpentry, Electrical, Masonry, Plumbing and Heating, Ventilation, Air Conditioning & Refrigeration (HVACR):

1. Option 1:

(i) Hold a minimum of a high school diploma or GED equivalent; and

(ii) Hold one of the following: a valid Level IV certificate in Carpentry, Electrical, HVAC or Plumbing issued by the National Center for Construction Education and Research ([NCCER](#)); a valid Level III certificate in Masonry issued by NCCER; a valid Contractor license issued by the [Georgia Board of Construction Industry](#); or a valid Contractor license from the [Georgia State Licensing Board for Residential and General Contractors](#); and

(iii) Have at least two (2) years of occupational work experience in the field.

2. Option 2:

(i) Hold an associate's degree or higher from a GaPSC-accepted accredited institution in construction, construction management or a GaPSC-determined equivalent; and

(ii) Have at least two (2) years of occupational work experience in the field.

3. Option 3:

(i) Hold a minimum of a high school diploma or GED equivalent; and

(ii) Pass both the Written and Performance portions of one of the following tests administered by [NOCTI](#):

(I) One of the following [Job Ready Assessments](#) in the Architecture & Construction cluster: Building Construction Occupations; Building Trades Maintenance; Cabinetmaking; Carpentry; Masonry (Block or Brick); Electrical Construction Technology; Electrical Occupations; HVACR (any test); or Plumbing; or

(II) One of the following [Pathway Assessments](#) in the Architecture & Construction cluster: Construction or Design & Pre-Construction; or

(III) [Home Builders Institute/National Association of Home Builders certification exam](#) (excluding the Basic Principles of Construction exam) at the "skilled" level; and

(iii) Have at least two (2) years of occupational work experience in the field.

4. Option 4:

(i) Hold a minimum of a high school diploma or GED equivalent;

(ii) Pass both the knowledge-based test and skills demonstration portions of the [National Construction Career Test](#) in Carpentry, Construction Technology, Electrical, Heavy Equipment Operations, HVAC, or Masonry; and

(iii) Have at least two (2) years of occupational work experience in the field.

5. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(h) Cosmetology:

1. Hold a minimum of a high school diploma or GED equivalent;

2. Hold a valid Master Cosmetologist or Cosmetology Instructor license issued by the [Georgia State Board of Cosmetology](#); and

3. Have at least two (2) years of occupational work experience in the field.

(i) Culinary Arts:

1. Hold an associate's degree or higher from a GaPSC-accepted accredited institution in culinary arts or a GaPSC-determined equivalent; and

2. Have at least two (2) years of occupational work experience in the field.

(j) Distribution & Logistics:

1. Hold an associate's degree or higher from a GaPSC-accepted accredited institution in business, finance, industrial engineering, supply chain logistics, supply chain management, distribution and materials management, logistics management, logistics and intermodal transportation, or a GaPSC-determined equivalent; and

2. Have at least two (2) years of occupational work experience in the field.

(k) Electronics Technology:

1. Hold an associate's degree or higher from a GaPSC-accepted accredited institution in electronics technology, electrical engineering technology, electrical systems technology, electronics technician, electrical engineering or a GaPSC-determined equivalent from a GaPSC-accepted accredited institution; or

2. Hold a minimum of a high school diploma or GED equivalent and one of the following: a valid [Associate Electronics Technician \(CETa\)](#) certificate issued by the [Electronics Technicians Association, International](#); or a valid Level IV certificate in [Electronic Systems Technician](#) from the National Center for Construction Education and Research ([NCCER](#)); and

3. Have at least two (2) years of occupational work experience in the field.

4. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry

testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(l) Esthetics:

1. Hold a minimum of a high school diploma or GED equivalent;
2. Hold a valid Esthetician or Esthetician Instructor license issued by the [Georgia State Board of Cosmetology](#); and
3. Have at least two (2) years of occupational work experience in the field.

(m) Granite Technology:

1. Hold a minimum of a high school diploma or GED equivalent; and
2. Have at least two (2) years of occupational work experience in the field.

(n) Graphic Communications & Design:

1. Hold an associate's degree or higher from a GaPSC-accepted accredited institution in graphic design; advertising design; communication design; commercial art; graphic arts; visual communication; computer animation; print management; or a GaPSC-determined equivalent; and
2. Have at least two (2) years of occupational work experience in the field.

(o) Information Technology:

1. IT/Information Services and Support:

- (i) Hold an associate's degree or higher from a GaPSC-accepted accredited institution in any field;
- (ii) Hold [A+ certification](#) from [CompTIA](#); and
- (iii) Have at least two (2) years of occupational work experience in the field.

2. IT/Network Systems:

- (i) Hold an associate's degree or higher from a GaPSC-accepted accredited institution in any field;
- (ii) Hold any one of the following: [Network + certification](#) from [CompTIA](#); [Cisco Certified Design Associate \(CCDA\)](#) certification from [Cisco](#); or any of the [Cisco Certified Network Administrator \(CCNA\)](#) certifications from Cisco; and
- (iii) Have at least two (2) years of occupational work experience in the field.

3. IT/Programming and Software Development:

- (i) Option 1:

(I) Hold an associate's degree or higher from a GaPSC-accepted accredited institution in any field;

(II) Hold a [Microsoft Certified Solutions Developer](#) (MCSD) certificate from [Microsoft](#); and

(III) Have at least two (2) years of occupational work experience in the field.

(ii) Option 2:

(I) Hold a bachelor's degree from a GaPSC-accepted accredited institution in computer science or a GaPSC-determined equivalent; and

(II) Have at least two (2) years of occupational work experience in the field.

4. IT/Interactive Media:

(i) Hold an associate's degree or higher from a GaPSC-accepted accredited institution in Interactive Media Design or a GaPSC-determined equivalent; and

(ii) Have at least two (2) years of occupational work experience in the field.

5. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(p) Junior Reserve Officer's Training Corps (JROTC):

1. Eligibility requirements for certification in this area of specialization are outlined in GaPSC Rule 505-2-.10 PERMIT, section (9).

(q) Manufacturing and Engineering Sciences:

1. Option 1:

(i) Hold a minimum of a high school diploma or GED equivalent;

(ii) Hold a valid Level IV certificate in [Industrial Maintenance Electrical & Instrumentation Technician](#) issued by the National Center for Construction Education and Research ([NCCER](#)) or hold a valid [Certified Manufacturing Technologist](#) or [Certified Manufacturing Engineer](#) certificate issued by the Society of Manufacturing Engineers ([SME](#)); and

(iii) Have at least two (2) years of occupational work experience in the field.

2. Option 2:

(i) Hold an associate's degree or higher from a GaPSC-accepted accredited institution in industrial maintenance, industrial systems, industrial engineering or a GaPSC-determined equivalent; and

(ii) Have at least two (2) years of occupational work experience in the field.

3. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(r) Marine Service Technology:

1. Option 1:

(i) Hold a renewable professional Automotive Service Technology Certificate; and

(ii) Have at least two (2) years of occupational work experience in the field.

2. Option 2:

(i) Hold a minimum of an associate's degree from a GaPSC-accepted accredited institution in any field;

(ii) Hold one of the following valid [certifications](#) from the American Boat and Yacht Council (ABYC): Diesel Engine & Support System Certification, Gasoline Engine and Support System Certification or Electrical Certification; and

(iii) Have at least two (2) years of occupational work experience in the field.

3. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(s) Nails:

1. Hold a minimum of a high school diploma or GED equivalent;

2. Hold a valid Nail Technician or Nail Technician Instructor license issued by the [Georgia State Board of Cosmetology](#); and

3. Have at least two (2) years of occupational work experience in the field.

(t) Precision Machine Technology:

1. Option 1:

(i) Hold a minimum of a high school diploma or GED equivalent;

(ii) Hold valid credentials in [Machining Level 1](#) and either [Metalforming Level 1](#) or [Metal Stamping Level 2](#) issued by the National Institute for Metalworking Skills, Inc. (NIMS); and

(iii) Have at least two (2) years of occupational work experience in the field.

2. Option 2:

(i) Hold a minimum of a high school diploma or GED equivalent;

(ii) Pass both the Written and Performance portions of the National Occupational Competency Test (NOCTI) in precision machining; and

(iii) Have at least two (2) years of occupational work experience in the field.

3. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(u) Law, Public Safety, Corrections and Security:

1. Hold an associate's degree or higher from a GaPSC-accepted accredited institution in criminal justice, emergency management, fire science, paralegal studies, political science or a GaPSC-determined equivalent; and

2. Have at least two (2) years of occupational work experience in the field.

3. Local units of administration (LUAs) hiring teachers certified in this field should select individuals with a background that is closely related to the pathway(s) they will be teaching. For example, an individual with experience as a firefighter would be best suited to teach a firefighting course. LUAs offering programs leading to certification or licensure must also be sure that their teachers meet the requirements of the particular credentialing agency.

(v) Sheet Metal:

1. Hold a minimum of a high school diploma or GED equivalent;

2. Hold valid Level IV certification in [Sheet Metal](#) issued by the National Center for Construction Education and Research (NCCER) or [Precision Sheet Metal Operator Certification](#) issued by the Fabricators & Manufacturers Association, International (FMA); and

3. Have at least two (2) years of occupational work experience in the field.

4. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(w) Welding Technology:

1. Hold a minimum of a high school diploma or GED equivalent; and

2. Hold a valid [Certified Welding Educator](#) certificate issued by the American Welding Society (AWS); or hold a valid Level III certificate in [Welding](#) issued by the National Center for Construction Education and Research (NCCER); or

3. Pass both the Written and Performance portions of the National Occupational Competency Test (NOCTI) in [Welding](#); or pass both the Knowledge-Based Test and Skills Demonstration portions of the [National Construction Career Test](#) in Welding, offered by NCCER; and

4. Have at least two (2) years of occupational work experience in the field.

5. As outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION, paragraph (3)(e), applicants meeting all requirements with the exception of industry testing and/or licensure may be issued a three (3)-year Induction certificate in this area of specialization.

(4) Requirements for Professional Certification. Certificate requirements and procedures to convert an Induction Trade and Industrial Certificate to Professional status are outlined in GaPSC Rule 505-2-.08 CAREER, TECHNICAL AND AGRICULTURAL EDUCATION paragraph (3) and JROTC Permit procedures to convert to Professional status are outlined in GaPSC Rule 505-2-.10 PERMIT.

(5) To Add the Field (See GaPSC Rule 505-2-.34 ADD A FIELD).

(a) To add a Trade and Industrial field to a renewable professional teaching certificate, the applicant must meet all applicable degree, industry testing and licensure requirements, outlined in section (3) above and have at least two (2) years of occupational work experience in the field.

(6) To Upgrade the Level (See GaPSC Rule 505-2-.33 CERTIFICATE UPGRADE).

(7) Renewal Requirements (See GaPSC Rule 505-2-.36 RENEWAL REQUIREMENTS).

(8) In-Field Statement. Educators certified in Trade and Industrial Education are in-field to teach specified Georgia curriculum courses in grades 6-12. Each state-approved curriculum course, with specified certificate fields that are designated as in-field, may be found under Certification/Curriculum Assignment Policies (CAPs) on the GaPSC web site at www.gapsc.com.

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