

Career and Technical Education Teaching Certificate
Computer Science Technology Certificate #4148
Self-Evaluation Guide

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Prepared by the New Jersey Department of Education

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Section I: Introduction and Overview of the Application Process

Introduction

The “Career and Technical Education Teaching Certificate Self-Evaluation Guide” (Guide) was developed by the New Jersey Department of Education (NJDOE) to enable individuals to evaluate their education, training, and/or employment experience toward acquiring a New Jersey Career and Technical Education Teaching Certificate using the Certificate of Eligibility Educator Preparation Program (CE EPP). CE EPP is a program for individuals who have not completed a traditional teaching preparation program and allows a candidate to obtain a New Jersey Teaching Certificate based upon education, training, and/or employment experience.

This Guide is meant to be used for self-evaluation purposes only. *It is not meant to determine actual eligibility to apply.* This Guide is made in accordance with the rules currently in effect. Requirements, passing test scores, and fees are subject to change without notice. The final determination of an applicant’s qualifications will be made by the NJDOE, Office of Certification and Induction.

Overview of the Application Process

Individuals can apply for an initial “Certificate of Eligibility” (CE), a credential issued by the NJDOE with lifetime validity to individuals who have successfully completed the *initial requirements* of the teaching certificate. In the case of career and technical education certificates, the CE is issued for a particular “endorsement” for the subject area the holder of the teaching certificate with that endorsement is authorized to

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teach. The endorsement name and endorsement number for the career and technical education certificate described in this Guide are identified at the top of each page and on the cover page.

Individuals holding a CE are eligible to be hired to teach the subject area identified in their endorsement in grades 9 to 12 in any New Jersey comprehensive school district, county vocational-technical school district, special services school district, charter school, or NJDOE-approved private school for students with disabilities. Once hired, the individual becomes a provisional teacher. The hiring school will provide the provisional teacher with a school site mentor. The hiring school district must enroll the teacher in the [CTE CE EPP Provisional Teacher Process \(PTP\)](#). A provisional certificate is then issued which is valid for two years. The PTP is a school-based training and evaluation program provided during the initial years of teaching in New Jersey. Applicants must make sure the school district completes this step in the process.

Based on the evaluation of a provisional teacher and successful completion of a district mentoring program, the hiring school will recommend to the NJDOE that the provisional teacher be issued a Standard Certificate, a permanent certificate issued to a person who has met all teacher certification requirements. Candidates must apply online for their standard certification and submit transcripts and a Verification of Program Completion (VOPC) form, if required.

Section II: Authorization to Teach

The holder of a career and technical education (CTE) teaching certificate with the **Computer Science Technology Certificate #4148 endorsement** is authorized to teach courses, programs, and programs of study in the following subject areas as identified on the National Center for Education Statistics' [Classification of Instructional Programs \(CIP\) website](#).

- **Computer & Information Sciences, General. CIP Code 11.0101**
- **Computer and Information Systems Security/Information Assurance. CIP Code 11.1003**
- **Computer Engineering, General. CIP Code 14.0901**
- **Computer Graphics. CIP Code 11.0803**
- **Computer Programming, Specific Applications. CIP Code 11.0202**
- **Computer Programming, Vendor/Certification. CIP Code 11.0203**
- **Computer Programming/ Programmer, General. CIP Code 11.0201**
- **Computer Science. CIP Code 11.0701**
- **Computer Support Specialist. CIP Code 11.1006**
- **Computer Systems Networking and Telecommunications. CIP Code 11.0901**
- **Data Processing and Data Processing Technology/ Technician. CIP Code 11.0301**
- **Informatics. CIP Code 11.0104**
- **Information Science/Studies. CIP Code 11.0401**
- **Information Technology. CIP Code 11.0103**
- **Modeling, Virtual Environments and Simulation. CIP Code 11.0804**
- **Network and System Administration/ Administrator. CIP Code 11.1001**
- **Web Page, Digital/Multimedia and Information Resources Design. CIP Code 11.0801**

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➤ Web/Multimedia Management and Webmaster. CIP Code 11.1004

Section III: General Requirements for All Applicants

All applicants for career and technical education certificates using the Certificate of Eligibility Educator Preparation Program must meet the following general requirements listed below prior to submitting an application online at the [NJDOE Certification and Induction](#) website.

Physiology and Hygiene Requirement:

Pass an *examination in physiology, hygiene and substance abuse*. The examination is administered at the County Office of Education in each county. In lieu of this examination, the applicant may present basic military training or college-level study in areas such as biology, health, or nutrition. To obtain details regarding this test, contact a [County Office of Education](#) near you.

Praxis™ Requirement

Complete the *Praxis™ Core Academic Skills for Educators (CORE) tests*. For more information, visit the [ETS Praxis website](#) and select Career and Technical Education to view requirements. **Note:** Applicants required to take the CORE tests have two options, as follows:

- a) Individuals may take the CORE exams *prior to applying for CE* and submit the CORE test scores as part of their initial application.
- b) Individuals may delay taking the CORE tests *until after a CE is issued*. However, they must *submit passing scores for the CORE tests by the end of their provisional teaching period* before the NJDOE will issue a Standard Teaching Certificate.

Section IV: Specific Requirements for this Certificate

This section provides detailed information about eligible degrees, training, and/or employment experience that may be used to apply for the endorsement identified at the top of this Guide. The Guide is to be used for self-evaluation purposes only and is *not meant to determine actual eligibility for a teaching credential*.

Individuals whose credentials are not identified in this document may request the NJDOE, Office of Certification and Induction, to evaluate those credentials. There is a fee for this service. For more information on credential evaluations, see Part E.

The final determination of an applicant's qualifications will be made by the Office of Certification and Induction prior to issuance of any credentials. Complete application information is on the [Office of Certification and Induction website](#).

Part A: Required State-Issued Occupation License or Credential

No state-issued occupational license is required at this time.

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Part B: Requirements for Using a College Degree

Individuals applying for this endorsement using a college degree must follow the requirements for Option 1 or Option 2.

Option 1: Requirements for using a bachelor's degree or higher

1.1 Degree Requirement: Applicants must submit an *official sealed copy of their transcript(s) for a bachelor's degree or higher in an NJDOE-approved subject area for this endorsement*. Listed below is the eligible subject area(s). If an applicant holds a degree in a subject area not identified below, see Part E.

- ❖ Computer Engineering
- ❖ Computer Networking
- ❖ Computer Science
- ❖ Information Systems
- ❖ Information Technology
- ❖ Network Systems
- ❖ Software Engineering
- ❖ Web Technologies

1.2 Degree Grade Point Average (GPA) Requirements:

- a) Applicants must have a cumulative GPA of at least **2.75** when a GPA of 4.00 equals an A grade if the applicant graduated **before September 1, 2016**, in an eligible baccalaureate degree program or higher degree program; or
- b) Applicants must have a cumulative GPA of at least **3.00** when a GPA of 4.00 equals an A grade for students graduating **on or after September 1, 2016**, in an eligible baccalaureate degree program or higher degree program.

1.3 Flexibility Rule: Applicants graduating **on or after September 1, 2016**, with a bachelor's degree or higher and a GPA that is *below the required applicable GPA identified in Option 1 sub-section 1.2, above*, but have a GPA of at least **2.50** when a GPA of 4.00 equals an A grade, may meet the requirements of Option 1 sub-section 1.1 above by submitting evidence of a minimum of at least **4,000 hours of full-time employment or equivalent part-time eligible employment**. The 4,000 hours of eligible employment or self-employment experience must be submitted in accordance with requirements described in Part C or Part D, respectively.

Option 2: Requirements for using an associate's degree

2.1 Degree Requirement: Applicants must submit an official sealed copy of their transcript(s) for an associate's degree in an NJDOE-approved subject area for this endorsement. Listed below is the eligible subject area(s). If an applicant holds a degree in a subject area not identified below, see Part E.

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- ❖ Computer Engineering
- ❖ Computer Networking
- ❖ Computer Science
- ❖ Information Systems
- ❖ Information Technology
- ❖ Network Systems
- ❖ Software Engineering
- ❖ Web Technologies

2.2 Degree GPA Requirements:

- a) Applicants must have a cumulative GPA of at least **2.75** when a GPA of 4.00 equals an A grade, if the applicant graduated **before September 1, 2016**, in an eligible associate's degree program; or
- b) Applicants must have a cumulative GPA of at least **3.00** when a GPA of 4.00 equals an A grade for students graduating **on or after September 1, 2016**, in an eligible associate's degree program.

2.3 Employment Experience: Applicants must submit evidence of a minimum of **4,000 hours of eligible employment or self-employment experience** in accordance with requirements described in Part C or Part D, respectively.

Part C: Requirements for Using Employment Experience

Individuals applying for this endorsement using **eligible employment experience only** must meet the requirements listed below:

Applicants must submit evidence of at least **8,000 hours of eligible full-time and/or part-time employment experience**. The following job titles will be accepted as eligible employment experience as identified in the federal [Occupational Information Network \(O*NET\)](#) job descriptions:

- 15-1199.08 - [Business Intelligence Analysts](#)
- 17-2061.00 - [Computer Hardware Engineers](#)
- 15-1111.00 - [Computer and Information Research Scientists](#)
- 11-3021.00 - [Computer and Information Systems Managers](#)
- 15-1143.00 - [Computer Network Architects](#)
- 15-1152.00 - [Computer Network Support Specialists](#)
- 15-1199.00 - [Computer Occupations, All Other](#)
- 43-9011.00 - [Computer Operators](#)
- 15-1131.00 - [Computer Programmers](#)
- 15-1121.00 - [Computer Systems Analysts](#)
- 15-1199.02 - [Computer Systems Engineers/Architects](#)
- 15-1151.00 - [Computer User Support Specialists](#)
- 15-1199.07 - [Data Warehousing Specialists](#)

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- 15-1141.00 - [Database Administrators](#)
- 15-1199.06 - [Database Architects](#)
- 15-1199.05 - [Geographic Information Systems Technicians](#)
- 15-1199.04 - [Geospatial Information Scientists and Technologists](#)
- 15-1122.00 - [Information Security Analysts](#)
- 15-1199.09 - [Information Technology Project Managers](#)
- 15-1142.00 - [Network and Computer Systems Administrators](#)
- 15-1132.00 - [Software Developers, Applications](#)
- 15-1133.00 - [Software Developers, Systems Software](#)
- 15-1199.01 - [Software Quality Assurance Engineers and Testers](#)
- 27-2012.05 - [Technical Directors/Managers](#)
- 15-1199.11 - [Video Game Designers](#)
- 15-1199.03 - [Web Administrators](#)
- 15-1134.00 - [Web Developers](#)

1. The eligible employment experience **must be within 10 years** of the date of the CE application submitted to the NJDOE. Employment experience that is older than 10 years **will not** be accepted.
2. The eligible employment experience must be documented by the applicant's employer(s) using the NJDOE Statement of Employment Experience Form. If eligible employment experience was obtained from more than one employer during the period of time for which eligible hours will be calculated, a separate Statement of Employment Experience Form must be completed by **each employer**. Employment experience submitted in any other format **will not** be accepted. Applicants can download the [Statement of Employment Experience Form](#) from the NJDOE website.

Employers completing a Statement of Employment Experience Form should comment on the applicant's work performance and safety practices using general occupational competencies for eligible employment experience as detailed in the federal [Occupational Information Network \(O*NET\)](#) job descriptions. O*Net job descriptions may be obtained by selecting the links provided in **Part C sub-section 1, above**. Print the Tasks list and the Tools & Technology list from the selected O*Net job description and attach them to the Statement of Employment Experience Form prior to submitting to an employer for completion.

If an applicant has employment experience not identified above, see Part E.

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Part D: Requirements for Using Self-Employment Experience

Individuals applying for this endorsement using self-employment experience only must meet the requirements listed below:

1. Applicants must submit evidence of at least 8,000 hours of eligible self-employment. The self-employment experience must be **within 10 years** of the date of the application submitted to the NJDOE. Self-employment experience older than 10 years **will not be accepted**.
2. Evidence of eligible self-employment experience must be submitted as a **notarized letter from the applicant's accountant or attorney** verifying the dates of self-employment and verifying that the applicant has filed for state and/or federal taxes for the self-employment experience. The [U.S. Census North American Industry Classification Systems \(NAICS\)](#) codes applicable to filing federal taxes for eligible self-employment experience are as follows:
 - **5415** Computer Systems Design and Related Services

If an applicant has self-employment experience not identified above, see Part E.

Part E: Other Credentials

Individuals who possess a degree, employment experience or self-employment experience not listed on this worksheet may submit their degree and/or experience along with an application for a CE to the NJDOE, which will review the submission in order to determine eligibility. There is a fee associated with this service. However, the NJDOE does not guarantee that credentials submitted will be accepted as satisfying the requirements for this career and technical education certificate endorsement. Additional information is on the [Office of Certification and Induction website](#).