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| **DRAFT Electrical Systems Technology (A35130)** | **AAS** | **Diploma** | **Certificate** |
| **Minimum Major Hours Required:** | **49 SHC** | **30 SHC** | **12 SHC** |
| **A. Technical Core:**  *Courses required for the diploma are designated with \**  **Required Courses:**  **\* Wiring. Select one:**  ELC 113 Residential Wiring 4 SHC *or*  ELC 114 Commercial Wiring 4 SHC *or*  ELC 115 Industrial Wiring 4 SHC  **\* Motor Controls. Select one:**  ELC 117 Motors and Controls 4 SHC  ELN 231 Industrial Controls 3 SHC  **\* DC/AC. Select one:**  ELC 112 DC/AC Electricity 5 SHC  *or* ELC 131 Circuit Analysis I 4 SHC *and*  ELC 131A Circuit Analysis I Lab 1 SHC  *or* ELC 138 DC Circuit Analysis ~~4~~ SHC *and*  ELC 139 AC Circuit Analysis ~~4~~ SHC  **Automated Controls. Select one:**  ELC 128 Introduction to PLC 3 SHC  ELN 260 Prog Logic Controllers 4 SHC | **27-32 SHC** | **12-16 SHC** |  |
| |  |  |  |  | | --- | --- | --- | --- | | **PROPOSED: Pre-Apprenticeship Core:** The NCCCS Pre-Apprenticeship Pathway certificate program prepares individuals, including qualified Adult Basic Education students, for registered apprenticeship, work-based learning, and entry-level employment opportunities. Completers are awarded a College Certificate and also receive an additional Pre-Apprenticeship Certificate of completion from ApprenticeshipNC.  Colleges may establish the program by including the *following core* within an approved career technical education local certificate program. A minimum of one technical core course shall be included within the (first) semester.  A separate NCCCS Pre-Apprenticeship program of study shall be filed with the System Office prior to implementation and the college should add a local suffix (P) to the program code to distinguish the program. For tracking requirements, colleges shall report completers using the following 5-digit format example, where the last program code digit has been dropped and a “P” inserted in its place: C3513P.  **Required Course: Potential National Certificates:** | | | | | ACA | 110 | Work Math/Literacy/Documents | 2 SHC *or* | | WBL | 120 | Career Redi, Explor & Employ | 3 SHC (Career Readiness Certificate) | | **Workplace Transition** (Choose One): (Employability Certification) | | | | | ACA | 220 | Professional Transition | 1 SHC *or* | | WBL | 110 | World of Work | 1 SHC *or* | | WBL | 111 | Work-Based Learning I | 1 SHC *or* | | WBL | 112 | Work-Based Learning I | 2 SHC *or* | | WBL | 121 | Work-Based Learning I | 1 SHC *or* | | WBL | 122 | Work-Based Learning I | 2 SHC | | **Computer Literacy** (Choose One): (Microsoft/IT Certification) | | | | | CIS | 110 | Intro to Computers | 3 SHC | | CIS | 111 | Basic PC Literacy | 2 SHC | | ELC | 127 | Software for Technicians | 2 SHC | | OST | 137 | Ofice Applications I | 3 SHC | | **Safety** (Choose One): (OSHA Certification) | | | | | ISC | 110 | Workplace Safety | 1 SHC | | ISC | 112 | Industrial Safety | 2 SHC | | ISC | 115 | Construction Safety | 2 SHC | | ISC | 121 | Envir Health & Safety | 2 SHC |   **TOTAL Pre-Apprenticeship Core: 6-10 SHC (NCCCS/Apprenticeship Cert)**  **Plus Technical Program Core Courses: 5-8 SHC (Additional NCCCS Certificate)**  **TOTAL CREDIT HOURS: 12-18 SHC** | | | |

**Suggested Action Plan as it relates to NCCCS Pre-Apprenticeship Pathway**

**Registered Apprenticeship:** Stay the course and build out.

* Provide benefit to employers by supplying vetted/educated individuals ready-to-work (rather than “green” non-skilled) through NCCCS Pre-Apprenticeship Program.
* Address employer often-repeated concern regarding employability skill gaps through Pre-Apprenticeship Core competencies.
* Benefit colleges by supporting cohort model as opposed to traditional RA models which often require regionalizing student cohorts in order to expand applicant pool to fill program.

**Pre-Apprenticeship:** Add standardized Pre-Apprenticeship Program.

* Benefit colleges by keeping students in program for a minimum of a Certifcate (12-18 SHC) to begin with before risking losing them completely to the workforce.
* Create a marketable, standardized program that is coded within the NCCCS, modularized, emebdedable within most all CTE programs, and is trackable from a data perspective.
* Can be readily implemented within Career and College Promise.
* Provides new customers/funding streams to expand the apprenticeship product including: WIOA Title I Adult, Dislocated Worker and Youth Formula programs, and Title II Adult Education and Family Literacy Programs including Basic Skills Plus, and Customized Training programs.
* Expands/crosswalks Work-Based Learning opportunities.
* Modularized design could easily be replicated within Workforce Continuing Education supporting direct employment or ongoing education.
* When the NCCCS moved from several disparate dual-enrollment programs in 2011 to CCP in 2012, student success increased seven-fold as did engagement (enrollment). Follow that example.
* Rather than a single, certified career pathway, there are potentially hundreds of pathways.



<http://www.ncperkins.org/>

<https://www.wincrsystem.com/>