

**Programs at Harnett Correctional Institution (HCI)**

**Carpentry**

**Credential: Certificate in Carpentry and Construction Skills; Certificate in Advanced Carpentry Skills  
C35180P1; C35180P2**

The Carpentry curriculum is designed to prepare individuals to apply technical knowledge and skills to the fields of construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this program should qualify for entry-level jobs in construction and trades professions as well as positions in industry and government.

Program Length: 1 semester

Career Pathway Options: Diploma in Carpentry (Higher entrance standards required); Certificate in Carpentry

Program Sites: Harnett Correctional Institution-Day Program

**Course Requirements for Carpentry and Construction Skills Certificate**

<b>1. Major Requirements (18 SHC)</b>	C-L-SHC
BPR 130 Print Reading	3-0-3
CAR 111 Carpentry I	3-15-8
CAR 114 Residential Building Codes	3-0-3
CAR 115 Residential Planning/Estimating	3-0-3
ISC 110 Workplace Safety	1-0-1

Total Semester Hours Credit required for graduation: 18

**Course Requirements for Advanced Carpentry Skills Certificate**

<b>2. Major Requirements (14 SHC)</b>	
CAR 112 Carpentry II	3-15-8
CAR 113 Carpentry III	3-9-6

Total Semester Hours Credit required for graduation: 14

**Electrical Systems Technology**

**Credential: Certificate in Fundamentals of Electrical Technology; Certificate in Advanced Electrical Skills for Commercial, Residential, and Solar Applications  
C35130P1; C35130P2**

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Program Length: 1 semester

Career Pathway Options: Diploma in Electrical Systems Technology (Higher entrance standards required); Certificate in Electrical Systems Technology

Program Sites: Harnett Correctional Institution-Day Program

**Course requirements for Fundamentals of Electrical Technology Certificate**

<b>1 Major Requirements (13 SHC)</b>	C-L-SHC
ELC 112 DC/AC Electricity	3-6-5
ELC 113 Residential Wiring	2-6-4
ELC 125 Diagrams and Schematics	1-2-2
ELC 118 National Electrical Code	1-2-2

Total Semester Hours Credit required for graduation: 13

**Course requirements for Advanced Electrical Skills for Commercial, Residential, and Solar Applications**

<b>1. Major Requirements (15 SHC)</b>	
ELC 114 Commercial Wiring	2-6-4
ELC 117 Motors and Controls	2-6-4
ELC 122 Advanced Residential Wiring	2-4-4
ELC 220 Photovoltaic System Technology	2-3-3

Total Semester Hours Credit required for graduation: 15

**Masonry**

**Credential: Certificate in Masonry Fundamentals; Certificate in Advanced Masonry Skills  
C35280P1; C35280P2**

The Masonry curriculum prepares individuals to apply technical knowledge and skills in the laying and/or setting of exterior brick, concrete block, and related materials, using trowels, levels, hammers, chisels, and other hand tools.

Coursework, most of which is hands-on, includes instruction in print reading, structural masonry, decorative masonry, foundations, reinforcement, mortar preparation, cutting and finishing, and applicable codes and standards.

Graduates of this program should qualify for entry-level jobs in construction and trades professions as well as positions in industry and government.

Program Length: 1 semester

Career Pathway Options: Certificate in Masonry

Program Sites: Harnett Correctional Institution-Day Program  
**Course Requirements for Masonry Fundamentals Certificate**

1. Major Requirements (14 SHC)		C-L-SHC
MAS 110	Masonry I	5-15-10
BPR 130	Print Reading –Construction	3-0-3
ISC 110	Workplace Safety	1-0-1

Total Semester Hours Credit required for graduation: 14

**Course Requirements for Advanced Masonry Skills Certificate**

1. Major Requirements (18 SHC)		
MAS 120	Masonry II	5-15-10
MAS 130	Masonry III	6-6-8

Total Semester Hours Credit required for graduation: 18

**Welding Technology  
 Credential: Certificate in Welding Fundamentals; Certificate in MIG, TIG, and Fabrication  
 C50420P1; C50420P2**

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Program Length: 1 semester

Career Pathway Options: Certificate in Welding Technology  
 Program Site: Harnett Correctional Institution-Day Program

**Course Requirements for Welding Fundamentals Certificate**

1. Major Requirements (15 SHC)		C-L-SHC
WLD 110	Cutting Processes	1-3-2
WLD 115	SMAW (Stick) Plate	2-9-5
WLD 116	SMAW (Stick) Plate/Pipe	1-9-4
WLD 141	Symbols and Specifications	2-2-3
ISC 110	Workplace Safety	1-0-1

Total Semester Hours Credit required for graduation: 15

**Course Requirements for MIG, TIG, and Fabrication**

**1. Major Requirements (15 SHC)**

WLD 121	GMAW (MIG) FCAW/Plate	2-6-4
WLD 131	GMAW (TIG)	2-6-4
WLD 151	Fabrication I	2-6-4
WLD 262	Inspection and Testing	2-2-3

Total Semester Hours Credit required for graduation: 15

**Barbering  
 Credential: Certificate in Barbering  
 C55110P0**

The Barbering Curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the barber industry. The curriculum also provides a simulated environment that enables students to develop manipulative skills.

Coursework includes instruction in all phases of professional barbering, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge, and other selected topics.

Graduates should qualify to sit for the State Board of Barber Examiners. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in barbershops and related businesses.

**PROGRAM SPECIFIC ENTRANCE STANDARDS:**

1. Must process student permit at least 10 days prior to the first day of class.

Program Length: 3 semesters

Career Pathway Option: Certificate in Barbering

Program Site: Harnett Correctional Institution - Day Program

**Course Requirements for Barbering Certificate**

1. Major Requirements (41 SHC)		C-L-SHC
BAR 111	Barbering Concepts I	4-0-4
BAR 112	Barbering Clinic I	0-24-8
BAR 113	Barbering Concepts II	4-0-4
BAR 114	Barbering Clinic II	0-24-8
BAR 115	Barbering Concepts III	4-0-4
BAR 116	Barbering Clinic III	0-12-4
BAR 117	Barbering Concepts IV	2-0-2
BAR 118	Barbering Clinic IV	0-21-7

Total Semester Hours Credit required for graduation: 41

**Food Service Technology**  
**Credential: Certificate in Foodservice**  
**Technology**  
**C55250P1**

This curriculum is designed to introduce students to the foodservice industry and prepare them for entry level positions in industrial, institutional or commercial production foodservice operations.

Courses include sanitation, basic and intermediate foodservice production skills, baking, menus, purchasing and basic cost control.

Graduates should qualify for employment as line cooks, prep cooks, or bakers in production foodservice settings or entry-level kitchen management in an institutional foodservice setting.

Program Length: 1 semester

Career Pathway Options: Certificate in Foodservice Technology

Program Site: Harnett Correctional Institution-Day Program

**Course Requirements for Certificate in Foodservice Technology**

<b>1. Major Requirements (17 SHC)</b>	<b>C-L-SHC</b>
FST 100 Introduction to Foodservice	3-0-3
FST 101 Quantity Baking I	1-4-3
FST 102 Foodservice Skills I	4-8-8
FST 103 Foodservice Sanitation	2-0-2
FST 103A Foodservice Sanitation Lab	0-2-1

Total Semester Hours Credit required for graduation: 17