

Motorcycle Mechanics

Credential: Diploma in Motorcycle Mechanics D60260

This curriculum provides a training program for developing the basic knowledge and skills needed to inspect, maintain, diagnose, repair and/or adjust motorcycles, and other similar powered vehicles. Coursework provides a thorough understanding of the operating principles involved in modern motorcycles and includes instruction in lubrication and cooling systems, electrical and ignition systems, carburetion, fuel systems and adjustments of moving parts. Graduates receiving a diploma may find employment with motorcycle dealers, independent repair shops or may set up their own business after they have developed skills in the trade.

Program Length: 3 semesters

Career Pathway Options: Diploma in Motorcycle Mechanics

Program Sites: Lee Main Campus - Day Program

Course Requirements for Motorcycle Mechanics Diploma

1. General Education Requirements (6 SHC) C-L-SHC

ENG 102	Applied Communication II	3-0-3
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Take one course:

MAT 110	Mathematical Measurement and Literacy	2-2-3
PHY 121	Applied Physics I	3-2-4

2. Major Requirements (22 SHC)

TRN 110	Intro to Transport Tech	1-2-2
TRN 120	Basic Transp Electricity	4-3-5
MCM 111	Motorcycle Mechanics	3-8-7
MCM 114	Motorcycle Fuel Systems	2-6-5
MCM 115	Motorcycle Chassis	1-6-3

3. Other Major Requirements (19 SHC)

CIS 111	Basic PC Literacy	1-2-2
MCM 117	Motorcycle Dyno Tuning I	1-4-3
MCM 122	Motorcycle Engines	2-9-5
MCM 217	Motorcycle Dyno Tuning II	1-4-3
MEC 111	Machine Processes I	1-4-3
TRN 180	Basic Welding for Transp	1-4-3

Total Semester Hours Credit required for graduation: 47

Motorcycle Mechanics

Credential: Certificate in Motorcycle Mechanics C60260

This curriculum provides a training program for developing the basic knowledge and skills needed to inspect, maintain, diagnose, repair and/or adjust motorcycles, and other similar powered vehicles. Coursework provides a thorough understanding of the operating principles involved in modern motorcycles and includes instruction in lubrication and cooling systems, electrical and ignition systems, carburetion, fuel systems and adjustments of moving parts. Graduates receiving a certificate may find employment with motorcycle

dealers, independent repair shops or may set up their own business after they have developed skills in the trade.

Program Length: 2 semesters

Career Pathway Options: Diploma in Motorcycle Mechanics (Higher entrance standards required), Certificate in Motorcycle Mechanics

Program Sites: Lee Main Campus - Day and Evening Program

Course Requirements for Motorcycle Mechanics Certificate

1. Major Requirements (7 SHC)		C-L-SHC
TRN 110	Intro to Transport Tech	1-2-2
TRN 120	Basic Transp Electricity	4-3-5

2. Other Major Requirements (8 SHC)

MCM 122	Motorcycle Engines	2-9-5
MCM 115	Motorcycle Chassis	1-6-3

Total Semester Hours Credit required for graduation: 15

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

1. Major Requirements (18 SHC)		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

2. Major Requirements (14 SHC)

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

1 Major Requirements (13 SHC)	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

1. Major Requirements (15 SHC)

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

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 phase 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

1. Major Requirements (17 SHC)		C-L-SHC
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

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)		C-L-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