

AIR CONDITIONING & HEATING CERTIFICATE

Semester I

HART 1403 -	AC Control Principles
HART 1407 -	Refrigeration Principles
HART 2338 -	Air Conditioning Installation and Startup

Total Credit Hours Required: 24

Semester II

HART 1441 -	Residential Air Conditioning
HART 1445 -	Gas and Electric Heating
HART 2334 -	Advanced Air Conditioning Controls

Median wage: \$20.22 hourly (Payscale.com)

AIRCRAFT STRUCTURES MECHANIC CERTIFICATE

Semester I

POFT 1220 -	Job Search Skills
AERM 1201 -	Introduction to Aviation
AERM 1205 -	Weight and Balance
AERM 1208 -	Federal Aviation Regulations
AERM 1310 -	Ground Operations
AERM 1303 -	Shop Practices
AERM 1315 -	Aviation Science

Total Credit Hours Required: 32

Semester II

AERM 1414 -	Basic Electricity
AERM 1241 -	Wood, Fabric, and Finishes
AERM 1352 -	Aircraft Sheet Metal
AERM 1254 -	Aircraft Composites
AERM 2486 -	Internship – Airframe Mechanics and Aircraft Maintenance Technology/Technician

Median wage: \$54,731 yearly (Payscale.com)

AUTOMOTIVE TECHNOLOGY CERTIFICATE

Semester I

AUMT 1305 -	Introduction to Automotive Technology
AUMT 1307 -	Electrical Systems
AUMT 1316 -	Suspension and Steering
AUMT 1410 -	Automotive Brakes

Total Credit Hours Required: 29

Semester II

AUMT 2313 -	Manual Drive Train and Axle
AUMT 2317 -	Engine Performance Analysis I
AUMT 1419 -	Engine Repair
AUMT 2421 -	Automotive Electrical Diagnosis and Repair Semester III
AUMT 1266 -	Practicum I OR
AUMT 2288 -	Internship I

Median wage: \$36,818 yearly (Payscale.com)

BAKING PRINCIPLES CERTIFICATE

Semester I

CHEF 1205 -	Sanitation and Safety
CHEF 1301 -	Basic Food Preparation
FDNS 1301 -	Introduction to Foods
HAMG 1170 -	Professionalism in the Hospitality Industry

Total Credit Hours Required: 20

Semester II

CHEF 1300 -	Professional Cooking and Dining Room Service
PSTR 1301 -	Fundamentals of Baking

Semester III

PSTR 2331 -	Advanced Pastry Shop
PSTR 2264 -	Practicum-Baking and Pastry Arts

Median wage: \$11.35 hourly (Payscale.com)

COLLISION TECHNOLOGY CERTIFICATE

Semester I

ABDR 1307 -	Collision Repair Welding
ABDR 1419 -	Basic Metal Repair
ABDR 1431 -	Basic Refinishing

Summer Session

ABDR 2355 -	Collision Repair Estimating
ABDR 2388 -	Internship - Auto body/Collision and Repair Technology/Technician
ABDR 2257 -	Collision Repair Shop Management

Total Credit Hours Required: 20

Semester II

ABDR 2341 -	Advanced Collision Repair Welding
ABDR 1349 -	Automotive Plastic and Sheet Molded Compound Repair
ABDR 2441 -	Major Collision Repair and Panel Replacement
ABDR 2437 -	Structural Analysis and Damage Repair V

Median wage: \$16.86 hourly (Payscale.com)

CONSTRUCTION TECHNOLOGY CERTIFICATE

Semester I

CNBT 1400 -	Residential and Light Commercial Blueprint Reading
CNBT 1301 -	Introduction to the Construction Industry
CNBT 1418 -	Construction Tools and Techniques
CNBT 1416 -	Construction Technology I

Semester III

CNBT 1342 -	Building Codes and Inspections
CNBT 2342 -	Construction Management

Total Credit Hours Required: 34

Semester II

CNBT 1311 -	Construction Methods and Materials
CNBT 1450 -	Construction Technology II
CNBT 2266 -	Practicum
PFPB 1413 -	Introduction to the Plumbing Trade

Median wage: \$42,250 yearly (Payscale.com)

CULINARY STUDIES CERTIFICATE

Semester I

CHEF 1205 -	Sanitation and Safety
CHEF 1301 -	Basic Food Preparation
FDNS 1301 -	Introduction to Foods
HAMG 1170 -	Professionalism in the Hospitality Industry

Total Credit Hours Required: 20

Semester II

CHEF 1300 -	Professional Cooking and Dining Room Service
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Semester III

CHEF 1345 -	International Cuisine
CHEF 1310 -	Garde Manger
CHEF 2264 -	Practicum Culinary Arts

Median wage: \$42,250 yearly (Payscale.com)

CYBERSECURITY CERTIFICATE

Semester I

ITNW 1425 -	Fundamentals of Networking Technologies
or ITCC 1401 -	Cisco Exploration 1 – Network Fundamentals
ITSY 1342 -	Information Technology Security
or ITSY 1300 -	Fundamentals of Information Security
ITSC 1316 -	Linux Installation and Configuration
ITNW 2412 -	Routers
or ITCC 1404 -	Cisco Exploration 2 – Routing Protocols and Concepts

Total Credit Hours Required: 28

Semester II

ITSY 2442 -	Incident Response and Handling
ITSY 2443 -	Computer System Forensics
ITSC 2325 -	Advanced Linux
ITSY 2301 -	Firewalls and Network Security
or ITCC 2343 -	Network Security

Median wage: \$70,500 yearly (Payscale.com)

ELECTRICAL TRADES CERTIFICATE

Semester I

ELPT 1411 -	Basic Electrical Theory
ELPT 1429 -	Residential Wiring
ELPT 2423 -	Transformers

Total Credit Hours Required: 24

Semester II

ELPT 1411 -	Motor Control
ELPT 1451 -	Electrical Machines
ELPT 1445 -	Commercial Wiring

Median wage: \$20.66 hourly (Payscale.com)

DIESEL/LIGHT TO HEAVY TRUCK TECHNOLOGY CERTIFICATE

Semester I

DEMR 1406 -	Diesel Engine
DEMR 1405 -	Basic Electrical Systems
DEMR 1416 -	Basic Hydraulics
DEMR 1303 -	Steering and Suspension

Total Credit Hours Required: 41

Semester II

DEMR 1421 -	Power Train
DEMR 1417 -	Basic Brake Systems
DEMR 1329 -	Preventive Maintenance
DEMR 1423 -	Heating, Ventilation, and Air Conditioning

Median Wage: \$21.81 hourly (Payscale.com)

Semester III

DEMR 2439 -	Advanced Electrical Systems
DEMR 2434 -	Advanced Diesel Tune-up and Troubleshooting
DEMR 2366 -	Practicum – Diesel Mechanics Technology/Technician

INERT GAS GTAW/GMAW WELDER (MSGW) CERTIFICATE

Semester I

WLDG 1434 -	Introduction to Gas Tungsten Arc (GTAW) Welding
WLDG 1313 -	Intro to Blueprint Reading for Welders
WLDG 1425 -	Introduction to Oxy-Fuel Welding and Cutting
WLDG 2451 -	Advanced Gas Tungsten Arc Welding (GTAW)

Total Credit Hours Required: 30

Semester II

WLDG 1428 -	Introduction to Shielded Metal Arc Welding (SMAW)
WLDG 1430 -	Introduction to Gas Metal Arc Welding (GMAW)
WLDG 2452 -	Advanced Flux Cored Arc Welding
WLDG 2388 -	Internship – Welding Technology/Welder

Median wage: \$17.55 hourly (Payscale.com)

PLUMBER'S HELPER CERTIFICATE

Semester I

CNBT 1301 -	Introduction to the Construction Industry
PFPP 1413 -	Introduction to the Plumbing Trade
PFPP 1450 -	Plumbing and Pipefitting Equipment and Safety

Total Credit Hours Required: 23

Semester II

CNBT 1400 -	Residential and Light Commercial Blueprint Reading
PFPP 2409 -	Residential Construction Plumbing I
PFPP 2445 -	Residential Construction Plumbing II

Median wage: \$14.73 hourly (Payscale.com)

PLUMBING TRADES CERTIFICATE

Semester I

CNBT 1301 -	Introduction to the Construction Industry
PFPP 1413 -	Introduction to the Plumbing Trade
PFPP 1450 -	Plumbing and Pipefitting Equipment and Safety
CNBT 1400 -	Residential and Light Commercial Blueprint Reading

Total Credit Hours Required: 39

Semester II

PFPP 2409 -	Residential Construction Plumbing I
CNBT 1416 -	Construction Technology I
PFPP 2445 -	Residential Construction Plumbing II

Median wage: \$20.03 hourly (Payscale.com)

Summer Session

ELPT 1429 -	Residential Wiring
PFPP 2436 -	Commercial Construction and Fixture Setting
PFPP 1421 -	Plumbing Maintenance and Repair

POWER GENERATION AND ALTERNATIVE ENERGY CERTIFICATE

Semester I

CETT 1409 -	DC-AC Circuits (Flex 1)
CETT 1429 -	Solid State Devices (Flex 2)
ELMT 1305 -	Basic Fluid Power

Semester III

WIND 2359 -	Wind Power Delivery Systems
ELMT 2322 -	Photovoltaic Technical Sales

Total Credit Hours Required: 32

Semester II

CETT 1325 -	Digital Fundamentals
WIND 1300 -	Introduction to Wind Energy
RBTC 1347 -	Electromechanical Devices

Semester IV

WIND 2355 -	Wind Turbine Troubleshooting and Repair
ELMT 1302 -	Solar Photovoltaic Systems

Median wage: \$24.55 hourly (Payscale.com)

STRUCTURAL/PIPE LAYOUT CERTIFICATE

Semester I

WLDG 1428 -	Introduction to Shielded Metal Arc Welding (SMAW)
WLDG 1313 -	Intro to Blueprint Reading for Welders
WLDG 1425 -	Introduction to Oxy-Fuel Welding and Cutting
WLDG 2443 -	Advanced Shielded Metal Arc Welding (SMAW)

Total Credit Hours Required: 29

Semester II

WLDG 1317 -	Introduction to Layout and Fabrication
WLDG 2453 -	Advanced Pipe Welding
WLDG 2435 -	Advanced Layout and Fabrication
WLDG 2388 -	Internship – Welding Technology/Welder

Median wage: \$33.39 hourly (Payscale.com)