Construction Trades











Recommendations for Success:

- Size and shape discrimination
- Able to withstand outside elements and tolerate heights
- Structural and mechanical visualization/reasoning skills
- Manual dexterity including fine motor skills
- Excellent eye-hand-foot coordination
- Physical stamina; able to lift 50 lbs or more
- Tolerate loud working environments
- Able to work in confined spaces
- Follow safety rules and precautions
- Reasoning skills both inductive and deductive
- Good attendance
- Homework completion
- Measure in both fractions and decimals
- Ability to tolerate cold and hot temperatures

Copyright of field Career goals include becoming a Carpenter, Electrician, Plumber, Mason, HYAC Technician, Equipment Operator, Architect, Foreman, Project Manager, Estimator, Project Engineer, Heavy Highway Worker, and Business Owner.	Lenape Technical School	Construction Technology				
Students will also work on various projects from cabinetry to assorted types of finish work Year 1: 22 safety tests, 9 chapter tests, and reviews* Year 2: 9 chapter tests and reviews* Year 3: 8 chapter tests and reviews* Year 3: 8 chapter tests and reviews* This number is approximate and subject to change 10 Hour Construction OSHA Card EPA 609 EPA 609 EPA 609 EPA 410A EPA Maintenance Tech EPA Indoor Air Quality Tech EPA Green Tech FORkitt Certification National Home Builders Association NCCER residential Construction International Residential Code Book 2009 Year 1: 45 minutes, four times a week* Year 2: 45 minutes, four times a week* Year 3: 30 minutes, four times a week* Year 3: 30 minutes, four times a week* Student must complete 80% of competency list Student must receive approval from all members of the professional staff Student must have a "B" grade or higher in all subjects Student must have a satisfactory discipline record Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must provide their own transportation to and from work Chapter reviews Essays Research papers Year 1 – 10 tasks* Year 2 – 15 tasks* Year 3 – 18 tasks* Students enrolled in the Carpentry/Construction program will participate in han and power tool safety, set up and layout of job sites, concrete, framing, roofing	Objective of field	Technician, Equipment Operator, Architect, Foreman, Project Manager, Estimator,				
Year 2: 9 chapter tests and reviews* Year 3: 8 chapter tests and reviews* Year 3: 8 chapter tests and reviews* This number is approximate and subject to change	Job Duties	Students will also work on various projects from cabinetry to assorted types of				
Task Lists 10 Hour Construction OSHA Card 10 Hour General Industry OSHA Card EPA 608 EPA 609 EPA 410A EPA Maintenance Tech EPA Indoor Air Quality Tech EPA Green Tech Forklift Certification National Home Builders Association Residential Construction International Residential Code Book 2009 Vear 1: 45 minutes, four times a week* Year 2: 45 minutes, four times a week* Year 3: 30 minutes, four times a week* *This number is approximate and subject to change Co-op/Clinical Co-op/Clinical Co-op/Clinical Co-op/Clinical Co-op/Clinical Co-op/Clinical Student must receive approval from all members of the professional staff Student must have a "B" gade or higher in all subjects Student must have a satisfactory discipline record Student must maintain passing grades while they are in the co-op program Student must maintain strong attendance record and demonstrate punctuality Student must provide their own transportation to and from work Co-aptractic Parameters Co-op/Clinical Co-op/Clinical Co-op/Clinical Student must provide their own transportation to and from work Co-op/Clinical Co-op/Clinical Co-op/Clinical Co-op/Clinical Student must provide their own transportation to and from work Co-op/Clinical Co-op/Clinical Co-op/Clinical Co-op/Clinical Student must maintain passing grades while they are in the co-op program Student must maintain strong attendance record and demonstrate punctuality Co-op/Clinical Co-op/Clinical Co-op/Clinical Co-op/Clinical Student must provide their own transportation to and from work Co-op/Clinical Co-op/Clinical Co-op/Clinical Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grades while they are in the co-op program Student must maintain passing grade or higher in all subjects Co-op/Clinical Co	Classroom Tests	Year 2: 9 chapter tests and reviews* Year 3: 8 chapter tests and reviews*				
International Residential Code Book 2009	Certification Tests	10 Hour General Industry OSHA Card EPA 608 EPA 609 EPA 410A EPA Maintenance Tech EPA Indoor Air Quality Tech EPA Green Tech Forklift Certification				
Year 2: 45 minutes, four times a week* Year 3: 30 minutes, four times a week* *This number is approximate and subject to change Student must complete 80% of competency list Student must receive approval from all members of the professional staff Student must have a "B" grade or higher in all subjects Student must have a satisfactory discipline record Student must maintain passing grades while they are in the co-op program Student must maintain strong attendance record and demonstrate punctuality Student must provide their own transportation to and from work Chapter reviews Essays Research papers Year 1 – 10 tasks* Year 2 – 15 tasks* Year 3 – 18 tasks* Students enrolled in the Carpentry/Construction program will participate in handand power tool safety, set up and layout of job sites, concrete, framing, roofing.	Books					
Co-op/Clinical Student must receive approval from all members of the professional staff Student must have a "B" grade or higher in all subjects Student must have a satisfactory discipline record Student must maintain passing grades while they are in the co-op program Student must maintain strong attendance record and demonstrate punctuality Student must provide their own transportation to and from work Chapter reviews Essays Research papers Year 1 – 10 tasks* Year 2 – 15 tasks* Year 3 – 18 tasks* Students enrolled in the Carpentry/Construction program will participate in hand and power tool safety, set up and layout of job sites, concrete, framing, roofing.	Lecture Time	Year 2: 45 minutes, four times a week* Year 3: 30 minutes, four times a week*				
Essays Research papers Year 1 – 10 tasks* Year 2 – 15 tasks* Year 3 – 18 tasks* Task Lists Students enrolled in the Carpentry/Construction program will participate in hand and power tool safety, set up and layout of job sites, concrete, framing, roofing.	Co-op/Clinical	 Student must receive approval from all members of the professional staff Student must have a "B" grade or higher in all subjects Student must have a satisfactory discipline record Student must maintain passing grades while they are in the co-op program Student must maintain strong attendance record and demonstrate punctuality 				
Year 2 – 15 tasks* Year 3 – 18 tasks* Task Lists • Students enrolled in the Carpentry/Construction program will participate in hand and power tool safety, set up and layout of job sites, concrete, framing, roofing.	Homework	• Essays				
This number is approximate and subject to change	Task Lists	 Year 2 – 15 tasks Year 3 – 18 tasks* Students enrolled in the Carpentry/Construction program will participate in hand and power tool safety, set up and layout of job sites, concrete, framing, roofing, interior finish, and exterior finish all within our state building code requirements. 				

Lenape Technical School	Construction Technology			
Planned Courses	 Safety Tool Safety Materials and Fasteners Blueprints Concrete Framing Roofing Exterior Finish Interior Finish Stair Framing Cabinets and Countertops Residential Electrical Residential Plumbing Masonry HVAC 			
Academic Skills	High School Reading Level Math Skills: Fractions/decimals (add, subtract, multiply, divide) Order of operations Sine, cosine, tangent Pythagorean Theorem Special triangles Application of trigonometry/geometry Formulas Conversion of linear measurement: US Customary to metric and vice versa			
Soft Skills	 Communication Patience Ability to pace work Team work Listening Critical thinking Reasoning 			
Computer Skills	Microsoft Word and PowerPoint			
Physical Requirements	 Lift 50 pounds Toleration of extreme temperature changes No fear of heights Hand-eye-foot coordination Manual dexterity Tolerate loud noise levels Work in confined spaces 			
Vocational Testing Essential Aptitudes for lab recommended levels	 Structural mechanical visualization/reasoning Discrimination by size/shape Gross/fine motor skills Manual dexterity Retention of mechanical and structural detail 			
Training	Lenape Tech's Carpentry/Construction Technology program covers the NAHB curriculum and works with our state and local building codes. Upon completion of this course, you will be prepared to apply for our union trades, go straight to the work force, or pursue post-secondary education.			

AOF215 Page 3 of 4 1/2

Lenape Technical School	Construction Technology				
Uniform Requirements	Student's Expense: Work boots or Work Shoes (steel toes are recommended) NO TENNIS SHOES 100% cotton clothing Shop shirt Heavy cotton work pants				
Uniform Requirements Continued	 T-shirts (no sleeveless tank tops) Lenape Tech polo No baggy clothing in shop All shop gear tucked in and buttoned 				
Articulation/Agreements	This is a program of study (POS) with a state-wide articulation agreement with post-secondary institutions. To find these, please see: www.collegetransfer.net for this CIP Code: 46.0201				
Employment/ Joh	Employment in the Construction Trades is projected to grow 20 percent from 2010 to 2020, faster than the average for all occupations. Population growth should result in new-home construction—the largest segment employing carpenters—which will stimulate the need for many new workers. Demand for Contractors and Technicians is expected to be driven by home remodeling needs as well. The need to repair and replace roads and bridges also will spur some employment growth for those in the trades. Much of this growth, however, depends on spending by federal and state governments as they attempt to upgrade existing infrastructure. Construction of factories and powerplants also may result in some new jobs.				
Employment/Job Outlook	Industry	2-Year Associates Degree	4-Year Union Apprentice		
	Entry-Level Carpenter Roofer Framing Carpenter Finish Carpenter Foreman/Manager Drywaller Mason Electrician Plumber HVAC Tecnician	Building Construction Technology Architectural Designs	Operator Commercial Carpenter Residential Carpenter Drywaller/Steel Framing Mason Floor Layer Piledriver Steamfitters HVAC Pipefitters		
How to find out more?	http://www.bls.gov/ooh/Construction-and-Extraction/Carpenters.htm#tab-1				