

**For More Inquiries about accreditation and continuing education please contact:*

Student Services Department

Studentservices@eascarpenterstech.edu

Phila, DE, Allentown (215) 824-2300 – Edison (732) 372-6020 – Hammonton, Sicklerville (609) 567-5675

CARPENTERS PROGRAM – YEAR 1

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH100	<p>INTRODUCTORY CONCEPTS OF MATHEMATICS</p> <p>This course covers basic treatment of trade math beginning with general math, fractions, decimals, ratios and percentages. Early layout theory in spacing of framing using linear measurements and quantitative material take-off is introduced.</p> <p><i>Students must complete both classes to receive credit.</i></p>	32
ARCH100	<p>ARCHITECTURAL DRAWINGS & BLUEPRINT READING I</p> <p>This course will build upon the students' basic mathematics, trigonometry, measurement skills and knowledge by accurately using math when reading blueprints. Reading blueprints, measuring, layout, fabrication and other functions specific to the carpentry trade require accurate calculations and measurements for the success of any job. Reading blueprints accurately will contribute to a timely and successful job.</p> <p><i>Students must complete both classes to receive credit.</i></p>	32
SFHT100	<p>OSHA30</p> <p>This course provides entry level construction workers with a general awareness on how to recognize and prevent hazards on a construction site. The training covers a variety of construction safety and health hazards that a worker may encounter at a construction site. Students earn OSHA30 certifications.</p>	32
CONT100	<p>TOOLS AND MATERIALS</p> <p>This <i>course</i> will introduce students to the tools and materials essential to the carpentry trade. Students will learn about the use, cleaning and maintenance of power and hand tools. Additionally, students will begin working with lumber and other essential materials learning to shape and cut to specified measurements.</p> <p><i>Students must complete both classes to receive credit.</i></p>	16
CONT101	<p>CONSTRUCTION TECHNOLOGIES I</p> <p>This course will introduce students to interior layout, metal framing, drywall construction and concrete wall forms. Students will engage in activities including measuring and marking cutting lines on materials using sketches, prints or building plans. Students will also learn how to properly use plumb bob, levels and lasers.</p> <p><i>Students must complete all 3 classes to receive credit.</i></p>	72
CONT190	<p>CONSTRUCTION INTERNSHIP I</p> <p>This course consists of paid OJT, internship, or practicum performed in a business, industry, trade, or technical career setting within the student's occupational area. The contact hours experienced through on-the-job training will be verified by an employer or union</p>	1800

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TOTAL 184

CARPENTERS PROGRAM – YEAR 2

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH110	<p>INTRODUCTORY CONCEPTS OF GEOMETRY</p> <p>This course covers basic treatment of trade geometry beginning with calculating the areas of rectangles, squares and triangles. Early layout theory in spacing of framing using geometric measurements and quantitative material take-off is introduced.</p> <p><i>Students must complete both classes to receive credit.</i></p>	48
ARCH110	<p>ARCHITECTURAL DRAWINGS & BLUEPRINT READING II</p> <p>Using structural drawings, students will determine elevations to footers and foundations. The engineering behind what type of foundation is required to support a structure will be reviewed. Students will work with engineered shop drawings and apply them to architectural designs. Finally, students will be exposed to ANSI, ASTM, ACI testing methods.</p>	24
CONT110	<p>CONSTRUCTION TECHNOLOGIES II</p> <p>This course will introduce students to the tools and materials essential to the carpentry trade. Students will learn about the use, cleaning and maintenance of power and hand tools. Additionally, students will begin working with lumber and other essential materials learning to shape and cut to specified measurements.</p> <p><i>Students must complete both classes to receive credit.</i></p>	48
CONT111	<p>LAYOUT, FRAMING AND SCAFFOLDING</p> <p>This course will introduce students to interior layout, metal framing, drywall construction and concrete wall forms. Students will engage in activities including measuring and marking cutting lines on materials using sketches, prints or building plans. Students will also learn how to properly use plumb bob, levels and lasers.</p> <p><i>Students must complete all 3 classes to receive credit.</i></p>	72
CONT199	<p>CONSTRUCTION INTERNSHIP II</p> <p>This course consists of paid OJT, internship, or practicum performed in a business, industry, trade, or technical career setting within the student’s occupational area. The contact hours experienced through on-the-job training will be verified by an employer or union official and will be placed on the student’s record. There are specific competencies from work experience required.</p>	1800

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TOTAL	192
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CARPENTERS PROGRAM – YEAR 3

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH120	<p>INTRODUCTORY CONCEPTS OF TRIGONOMETRY</p> <p>This course focuses on the close relationship between right angle trigonometry and exterior building layout. The course also covers Program Arc layout using Pythagorean Theorem, 3-4-5 right angle layout and arc scribe. Students will also be able to demonstrate units of angular measurement and how it is used for building layout. Finally, the course will cover the Cartesian Coordinate Plane to determine coordinate values for building points.</p> <p><i>Students must complete both classes to receive credit.</i></p>	48
SFTH200	<p>INFECTIOUS CONTAINMENT RISK ASSESSMENT (ICRA)</p> <p>The Infection Control Risk Assessment (ICRA) course is an advanced class that teaches best practices for minimizing infection spread through construction on high-risk job sites.</p>	24
SFTH210	<p>INTRODUCTION TO CRANE, RIGGINGS AND SIGNALING SAFETY</p> <p>This class will cover safety, wire rope, chain construction, slings, hardware, and knot tying techniques. Common hitch configurations, hardware and sling attachments, and working with different types of cranes and hand signals will also be covered.</p>	16
CONT210	<p>TOTAL STATION</p> <p>This course covers setup and operation of total station equipment and its application to field layout. Students will be required to solve for Northings and Eastings using R-P. Students will enter blueprint layout into data collector and use with Total Station.</p>	40
CONT215	<p>DOORS AND DOOR HARDWARE</p> <p>This course covers door and hardware installations in both rough and finish openings. Students will be required to complete these installations using a variety of hand and power tools.</p>	24
CONT220	<p>CONSTRUCTION TECHNOLOGIES III</p> <p>Students will be introduced to concrete placement and formwork projects such as bridge abutments, hammerheads, caissons, used in the heavy and highway environment.</p>	40
CONT290	<p>CONSTRUCTION INTERNSHIP III</p> <p>This course consists of paid OJT, internship, or practicum performed in a business, industry, trade, or technical career setting within the student's occupational area. The contact hours experienced through on-the-job training will be verified by an</p>	1800

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TOTAL 192 13

CARPENTERS PROGRAM – YEAR 4

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH130	<p>ESTIMATING CONCEPTS</p> <p>This course focuses on volume formulas for concrete and earth removal estimating, frustums, cylinders and cones. Students will prepare a final estimate of a nine-story commercial building. Students will be required to estimate concrete volumes for a variety of shapes and sizes. The study of steep angles of descent relative to the horizontal plane to which a material (concrete) can be piled without slumping will be covered.</p> <p><i>Students must complete both classes to receive credit.</i></p>	24
SFTH220	<p>CONFINED SPACE</p> <p>This course addresses how to protect students from the hazards posed by working in or around confined spaces, including requirements for training, identification and assessment of confined spaces, and rescue. Upon completion, learners will be certified in the OSHA Standard 1926 Subpart AA.</p>	24
SFTH230	<p>AERIAL LIFTS AND FORKLIFT TRAINING</p> <p>This hands-on qualification workshop combines classroom instruction to train students in the safe operation of scissor lifts and boom lifts in compliance with OSHA standards. This is a hands-on forklift training course. Topics covered are load capacity, hand signals, safe operating techniques, equipment, and job-site inspections. Please note: This qualification course is in preparation for Department of Transportation licensing</p> <p><i>Students must complete both classes to receive credit.</i></p>	16
CONT210	<p>WELDING TECHNOLOGIES</p> <p>In this course, students learn how to navigate the hazards associated with arc welding and Oxy-Fuel cutting. Students learn to recognize and identify common weld symbols. The class will also review electrode holders, guns, torches and the proper way to hold them and use them.</p> <p><i>Students must complete both classes to receive credit.</i></p>	40
CONT215	<p>CEILINGS</p> <p>This hands-on course introduces students to codes and industry standards related to ceiling installations. Topics covered are materials identification, job planning, print reading, laser</p>	24

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	technology, layout, and installation of exposed-grid ceilings. Students will also be introduced to metal work for constructing overhead soffits and barrel ceilings.	
CONT220	FOREMAN TRAINING This <i>course</i> will introduce students to the communication and interpersonal skills necessary to becoming an effect foreman. Topics include: job planning, scheduling, reporting requirements and crew managements. Interpersonal skills such as conflict resolution, problem solving and negotiations will also be explored.	32
ARCH 200	CIVIL, STRUCTURAL, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS This class covers advanced foundation engineering, along with the specifications governing the strengths and reinforcements required. In depth use of specifications, grading and staking using civil and structural drawings, CPM scheduling, Schedule of Values, and Change Orders.	32
CONT299	CONSTRUCTION INTERNSHIP IV This course consists of paid OJT, internship, or practicum performed in a business, industry, trade, or technical career setting within the student’s occupational area. The contact hours experienced through on-the-job training will be verified by an employer or union official and will be placed on the student’s record. There are specific competencies from work experience required.	1800
		TOTAL 192