



***Construction Trades
Program Guide***
CIP Code # 46.0201

Standard Occupational Classifications	2015 Pennsylvania High Priority Occupations
47-2031.00 Carpenters <i>Bright Outlook</i> 47-2031.01 Construction Carpenters 47-3012.00 Helpers--Carpenters 47-2031.02 Rough Carpenters 47-2061.00 Construction Laborers 47-2081.00 Drywall and Ceiling Tile Installers 47-2021.00 Brickmasons and Blockmasons	47-2021 Brickmasons & Blockmasons ³ 47-2031 Carpenters ³ 47-2051 Cement Masons & Concrete Finishers ³ 47-2061 Construction Laborers ³
Industry Accreditation	Student Certifications
None at this time	ECTS Program Completer or Participant Pennsylvania Skills Certificate CareerSafe OSHA 10 Hour Construction Industry

Key: ¹Statewide HPO ²Regional HPO ³Both Statewide and Regional HPO

For more information, go to: <http://online.onetcenter.org/find/family?f=17&g=Go>

Course Prerequisites

Expected Characteristics and Traits for Success

Students entering this program should possess the following traits:

- Good attendance
- Physically able to lift heavy objects
- Willingness to work in inclement weather
- Good hand-eye coordination
- Not afraid of heights
- Able to operate dangerous tools safely

- Self-starter who can work alone or with others and remain on task
- A good problem solver
- Dependable, honest and ethical
- Eagerness to please supervisor/employer
- Willingness to learn

Supply obligations apply to all levels: leather work boots (not requiring steel-toed), tape measure, tool belt, hammer, speed square, utility knife (blades to be provided by instructor), modular ruler.

Listed below are the items each student must supply.

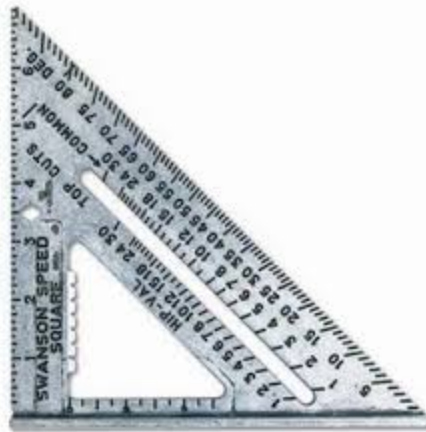
Construction Trades Hand Tool Requirements

<p>1) HAMMER APROX. \$ 20.00</p>	
<p>2) TOOL BELT APROX. \$ 30.00</p>	

3) RETRACTABLE UTILITY KNIFE
APROX. \$6.00



4) Speed square
APROX. \$8.00





5) SPEED CHALK BOX
APROX \$8.00



6) MASON MODULAR RULE (note- not a spacing rule)
APROX. \$6.00



<p>7) CARPENTERS PENCIL APROX. \$0.25</p>	
<p>8) NAIL SET APROX. \$5.00</p>	

Construction Trades Planned Courses

Content Area	Course Title	Course Number	Course Hours
00	Fundamentals of Construction Trades		
	Construction Hand and Power Tools	CNT101	30
	Construction Materials and Applications	CNT102	30
	Math Concepts in Construction	CNT103	15
	Blueprint Reading and Specifications	CNT104	30
	Basic Construction Concepts	CNT105	45
	Basic Framing Math	CNT106	15
	Leadership Principles	PFS109	7.5
		PFS110	7.5
	Math for Foundations and Floor Framing	CNT201	15
	Math for Wall Framing	CNT202	15
	Math for Roof Construction	CNT203	15
	Business Principles	PFS209	7.5
		PFS211	7.5
	Total Quality Principles	PFS309	7.5
		PFS310	7.5

10	Fundamentals of Masonry		
	Masonry Principles, Tools and Equipment	CNT111	30
	Introduction to Brick and Block Leads	CNT112	45
	Brick and Block Layout, Piers and Composite Walls	CNT113	45
	Laser Technology in Block Construction	CNT114	30
	Advanced Brick Techniques	CNT115	30
	Math Applications in Foundation Layout	CNT116	15
	Foundation Layout	CNT117	45
20	Rough Framing		
	Basic Framing Techniques	CNT121	45
	Basic Exterior Applications	CNT122	30
	Site Preparation and Layout	CNT221	30
	Fundamentals of Floor Framing	CNT222	45
	Applied Foundations and Floor Framing I	CNT223	30
	Principles of Wall Layout	CNT224	30
	Fundamentals of Wall Framing and Construction	CNT225	30
	Advanced Wall Framing and Construction	CNT226	45
	Gable Roof Construction	CNT227	30
	Hip Roof Construction	CNT228	45
	Applied Roof Construction	CNT229	30
	Residential Construction Planning, Scheduling and Management	CNT321	30
	Advanced Foundations and Floor Framing II	CNT322	45
	Applied Exterior Wall Framing	CNT323	45
	Applied Roof Framing	CNT324	45
	Applied Roof Shingling	CNT325	45
	Door and Window Installation	CNT326	30
30	Exterior Finish		
	Roofing Materials and Applications	CNT231	45
	Siding Applications I	CNT331	30
	Installation of Soffit and Fascia	CNT332	45
	Siding Applications II	CNT333	45
40	Interior Finish		
	Stair Layout and Construction	CNT241	45
	Interior Trim	CNT242	30
	Drywall Installation	CNT341	30
	Drywall Finishing Techniques	CNT342	45
	Fundamentals of Residential Wiring	CNT343	45