

Name of Cluster : Architecture and Construction

Name of Pathway: Construction

**John A. Logan College: HVAC Programs of Study**

**STEM**

**Carbondale**

This Career Pathway Plan of Study can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

Education Levels	Grade	English	Math	Science	Social Studies/ Sciences	Recommended Electives	Career & Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to this Pathway (as listed on careerclusters.org)
Interest Inventory Administered - All plans of study need to meet <b>local and state</b> high school graduation requirements as well as college entrance requirements.								Boilermaker Carpenter Carpet Installer Concrete Finisher Construction Foreman Construction Inspector Construction Manager Drywall Installer Electrical & Power Transmission Electrician Electronic Systems Technician Elevator Installer Equipment and Material Manager Estimator Field Supervisor Floor Layer General Contractor/Builder Heating, Ventilation, Air Conditioning & Refrigeration Mechanic Insulation Worker Iron/Metalworker Landscaper/Groundskeeper Manufacturer's Representative Mason Millwright Painter Pipe Fitter Pipeline Installer Plasterer/Drywall Plumber  8 Hrs @ \$109 =  \$872 SAVED!
Secondary	9	English / Language Arts I	Algebra I	Physical / Earth Science		Keyboarding	Intro to Technology & Engineering or Construction I	
	10	English / Language Arts II	Geometry	Science Elective		Computer Concepts	Electrical Trades	
	11	English/ Language Arts III	Algebra II	Principles of Technology Or AP/Env. Sci.	American History	Web Page or Programming	*WEL 150@JALC – 1 Hr *WEL 152@JALC – 1 Hr	
	12	English/ Language Arts IV/Tech Writing *(ENG 113) 3 Hrs		AP Honors Physics I	American Gov. Or AP/Gov.	All plans of study will meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status.	Construction II Res Mngt/Ad Living or CVE *(PSY 110) 3 Hrs	
		Heating & Air AAS Degree		Heating & Air Certificate	Heating & Air Installer Cert	Heating & Air Elec. Specialist Cert	HVAC Green Technology Certificate Energy Management Systems Certificate	
Postsecondary	Yr 15 Fall		MAT 113 (AAS and HVAC Certificate)	WEL 150 WEL 152 ELT 102 HAC 121	ELT 102 HAC 121 HAC 131 HAC 240	ELT 102 ELT 150 ELT 224 HAC 107	ELT 102 Basic Electricity & Wiring PHS 101 Environ. Technology MAC 180 Blueprint Reading HAC 121 Environmental Tech.	
	Yr 16 Spr			ELT 224 HAC 105 HAC 107 HAC 131 HAC 122			HAC 122 Heating II IDM 120 Safety & Environ. Man. ELT 241 Energy Management ELT 243 Alternative Energy Sys. PHS 100 Environ Conservation	
	Yr 16 Fall	ENG 101 SPE 115		HAC 132 HAC 106 HAC 222 HAC 240			HAC 125 Intro to Energy Analysis HAC 222 Adv Heating Systems PHS 106 Energy, Environ. Safety HAC 240 Installation of HVAC Sys	
	Yr 17 Spr	ELT 150 ELT 224 HAC 142 HAC 207 HAC 279	PHY 121					

