

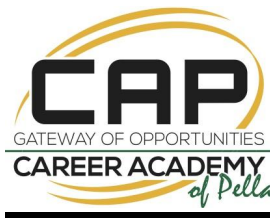
## CONSTRUCTION TRADES APPRENTICESHIP

Date: \_\_\_\_\_ Student's High School: \_\_\_\_\_

Student Name: \_\_\_\_\_

Counselor Signature: \_\_\_\_\_

Academic Related Training & Instruction (RTI)		
Initial if completed	Required Classroom Training	Equivalent Course Name & school providing the skill training*
	<b>Exploring Industrial Technology</b> <i>If student took this class at the Career Academy of Pella, initial at left and proceed to next highlighted class below. If not, please complete for each following skill:</i>	
	Explain construction related processes and technology	
	Describe technology used in the fenestration industry	
	Explain the green energy benefits of solar and wind energy in the construction industry	
	Demonstrate the science of solar related technology	
	<b>Power Tools</b> <i>If student took this class at the Career Academy of Pella, initial at left and proceed to next highlighted class below. If not, please complete for each following skill:</i>	
	Demonstrates appropriate industry math skills	
	Discuss industry related career opportunities	
	Demonstrates safe and proper use of industry related hand and power tools	
	Demonstrates how to draw orthographic top and side view	
	Demonstrate the appropriate use of standing and finishing processes	
	<b>Fundamentals of Construction</b> <i>If student took this class at the Career Academy of Pella, initial at left and this form is complete. If not, please complete for each following skill:</i>	
	Demonstrates appropriate construction math skills	
	Demonstrates measurement skills to 1/16"	
	Discuss construction related career opportunities	
	Demonstrates safe and proper use of construction hand and power tools	
	Demonstrates blueprint reading and takeoffs using the "Bill of Materials"	



	Demonstrates proper methods of laying out square building and foundation lines	
	Explain the process of pouring footings and foundations	
	Demonstrates how to pour concrete and finish a small pad	
	Discuss the process for laying out floor joists	
	Demonstrates how to layout and construct a wall section	
	Demonstrates how to apply exterior sheet siding	
	Discuss how to layout and assemble roof trusses	
	Explain how to properly install a window	
	Demonstrate how to install roof shingles	
	Explain basic construction safety guidelines	
	Identify what an electrical shock is	
	Describe the factors that affect the severity of an electrical shock	
	Describe general hazards associated with electrical maintenance	
	Describe general aspects of working safely around electrical equipment	
	Read and interpret blueprints and electrical drawings	
	Demonstrate electrical switch wiring	
	Demonstrate electrical outlet wiring	
	Read and interpret blueprints, pipe system sketches and plumbing Specifications	
	Measure, cut and join a variety of metallic pipe/tubing, including copper, steel and cast iron.	
	Measure, cut and assemble a variety of plastic pipe/tubing and PVC	
	Rough in water supply lines, waste lines and vents for various fixtures and appliances	

**\*Course providers outside of the Career Academy of Pella may have classes by a different name, which teach the same academic competency as the Career Academy course listed**