HEATING AND AIR CONDITIONING
Certificate Program

Career Curriculum HAC0006
Certificate Program
Minimum Hrs. 42
Major Code: 1.2 470201J

FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Gr.
HAC	102	Residential Electrical Wiring	4	____
HAC	121	Heating I	4	____
MAT	113	Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies OR MAT 120 Elementary Statistics	3	____
WEL	150	Oxy-Acetylene Fusion Welding I	1	____
WEL	152	Brazing and Soldering	1	____
			13	

FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Gr.
HAC	105	Basic Sheet Metal Layout	3	____
HAC	107	Electrical Controls and Circuitry	3	____
HAC	122	Heating II	4	____
HAC	131	Refrigeration & Air Conditioning I	4	____
			14	

SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Gr.
CMG	107	Construction Document Interpretation	3	____
HAC	106	Advanced Sheet Metal Layout	2	____
HAC	132	Refrigeration & Air Conditioning II	4	____
HAC	222	Advanced Heating Systems	3	____
HAC	240	Installation of HVAC Systems	3	____
			15	

SUMMER SEMESTER (OPTIONAL)

Dept.	No.		Hrs.	Gr.
ATI	200	Applied Technologies Internship[1] OR PSY 110 College Success and Career Planning[1]	1-3 / 1-3	____

[1] Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

This is a Gainful Employment Certificate Program of 16 credit hours or more that prepares the student for gainful employment in a recognized occupation. For detailed information regarding program length, cost, average loan debt and completion details, select the following link to the Gainful Employment Worksheet for this program. Gainful Employment Worksheet–Heating and Air Conditioning Certificate Program (HAC 0006). You can also access this information by typing the following URL into your browser's address bar:
http://www.jalc.edu/gainful_employment/heating_and_air_conditioning/Gedt.html

John A. Logan College reserves the right to modify this curriculum guide as needed.
Please verify with your academic advisor the accuracy and time lines of this document.

Effective Date: Summer 2017

Additional Information: This program prepares students for careers in the heating and air conditioning industry. The curriculum provides theory as well as sufficient laboratory experience to prepare graduates for immediate employment. Students will be trained for competency in installing, operating, troubleshooting, and maintaining all types of environmental control equipment. The graduate will receive a Certificate of Achievement.

All students registered for heating and air conditioning classes will be required to furnish a basic tool set. The basic tool set will be necessary by the beginning of the fifth week of the semester. The set includes the following:

Sockets
- 1/4" Socket Set

Screwdrivers
- Phillips Stubby Screwdriver
- #2 x 4" Phillips Screwdriver
- Flat Stubby Screwdriver
- 3/16" x 6" Slotted Screwdriver
- 5/16" x 6" Slotted Screwdriver

Nutdrivers
- Nutdriver ND5 1/4"
- Nutdriver ND7 5/16"

Pliers
- Sidecutters
- 7 1/2" Longnose Pliers
- Channel Locks

Wrenches
- 6" Adjustable Wrench
- 8" Adjustable Wrench
- 10" Adjustable Wrench
- 12" Adjustable Wrench
- Hex Wrench Set
- Service Valve Wrench
- Combination Wrench Set 1/4" to 3/4"

Additional Tools
- Wire Strippers
- Clamp-On Amp Meter
- Digital Multimeter (must read D.C. microamps-MA)
- Manifold Gauge Set
- Pocket Thermometer
- Inspection Mirror
- Sling Psychrometer
- Red and Green Tin Snips
- Tinners Hammer
- Dividers

Note: Cost varies from different suppliers. Tools may be purchased at Sears, Snap-On, True Value, etc.

Career Opportunities: Technicians, installers or maintenance personnel.