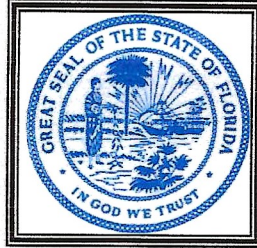


State of Florida



Registered Preapprenticeship Training Standards for Academy of Construction Technologies, Inc.

(Program Name)

P-60

(Program Number)

in the Trade(s) of:

OCCUPATION / TRADE	PROGRAM TERM	N.A.I.C.S. Code	RAPIDS Code (4 digit trade #)	S.O.C. Code
Bricklayer	22 months	238140	0052	47-2021.00
Electrician	22 months	238210	0159	47-2111.00
Heating & A/C Installer / Servicer	22 months	238220	0637	49-9021.01
Maintenance Repairer, Building	22 months	721110	0310	49-9071.00
Plumber	22 months	238220	0432	47-2152.02
Carpenter	22 months	238350	0067	47-2031.00

Apprenticeship Program Sponsor - Registered Name	Registration Number of Apprenticeship Sponsor
Air Conditioning Contractors Association of CF Apprenticeship Program GNJ	FL008910004
Central Florida Building Maintenance Apprenticeship GNJ	FL005145192
Central Florida Electrical JATC	FL008660001
Florida Electrical Apprenticeship & Training, Inc. GNJ	FL008870020
iBuild Carpentry Apprenticeship Program GNJ	2019-FL-73592
Masonry Association of Florida Inc. GNJ	FL007930012
Plumbing Industry Professional Education GNJ	FL005070003
[Revised 9/27/19]	

Adult Program

Youth Program

L.E.A. Education Linkage? Yes - or No -

OJT Included? Yes - or No -

Florida Department of Education, Division of Career and Adult Education,
Apprenticeship Programs Section

DEFINITIONS

1. **Gender Reference** - all references in these standards to the male gender, if any, are used for convenience only and shall be construed to include both male and female.
2. **Apprenticeship Representative** - is an individual representative of the Florida Department of Education, properly authorized to act on behalf of the Department in matters concerning apprenticeship, preapprenticeship, and on-the-job training. 6A-23.002(4)
3. **Course Title and Number**: Each secondary (high school) program has individual course titles for the content of the program along with course numbers that allow the tracking of the course. These titles and numbers come from the State of Florida Course Code Directory.
4. **Completion Certificate** - means the official document issued by the Department to an individual completing training as verified by the program sponsor. 6A-23.002(6)
5. **Department** - means the Florida Department of Education, which is the Registration Agency for federal apprenticeship purposes. 6A-23.002(3)
6. **Journeyworker** - means a person working in an apprenticeable occupation who has successfully completed a registered apprenticeship program or who has worked the number of years required by established industry practices for the particular trade or occupation. Use of the term may also refer to a mentor, technician, specialist or other skilled worker who has documented sufficient skills and knowledge of an occupation, either through formal apprenticeship or through practical on-the-job experience and formal training. As defined in Chapter 6A-23, F.A.C., Journeyworker applies to ratios, wage surveys and qualified apprenticeship trainers. The term "Journeyworker" is synonymous with "Journeyman" as defined in Section 446.021(4), F.S. 6A-23.002(12)
7. **Local Education Agency** - (LEA) means an educational agency at the local level that exists primarily to operate schools or to contract for educational services.
8. **On-the-Job Training** - (OJT) means supervised trade-specific employment. OJT becomes a monitoring responsibility of the sponsor. OJT training providers must be Participating Employers. 6A-23.002(15)
9. **Participating Employer** - means a business entity which:
 - (a) Is actively engaged by and through its own employees in the actual work of the occupation being apprenticed,
 - (b) Employs, hires and pays the wages of the apprentice and the Journeyworker serving as qualified training personnel training the apprentice,
 - (c) Evaluates the apprentice, and
 - (d) Is signatory party to a collective bargaining agreement or signatory to a Participating Employer agreement with the program sponsor which will be registered with the Registration Agency in the Department. 6A-23.002(16)
10. **Preapprentice** - means any person sixteen (16) years of age or over engaged in any course of instruction in the public school system or elsewhere, which course is registered as a Preapprenticeship Program with the Department. 6A-23.010(2)(a)
11. **Preapprenticeship Agreement** - means a written agreement between the Preapprentice and the preapprenticeship program sponsor, containing the terms and conditions of training and incorporating the registered program standards as part of the agreement. 6A-23.010(2)(b)
12. **Preapprenticeship Committee** - or committee means the same as the registered apprenticeship program sponsor's committee, or a group appointed by registered apprenticeship program sponsor committees, or their designees. 6A-23.010(2)(c)

13. **Preapprenticeship Program** - means an organized course of instruction, in the public school system or elsewhere, which is designed to prepare a person sixteen (16) years of age or older to become an apprentice, and which is approved and registered with the Department and sponsored by a registered apprenticeship program. Registered Preapprenticeship Programs shall be part of regular or adult high school programs when occurring in a public school system. 6A-23.010(2)(d)
14. **Preapprenticeship Sponsor** - means registered apprenticeship program(s) authorized to offer preapprenticeship training. 6A-23.010(2)(e)
15. **Preapprenticeship Standards** - means the minimum requirements established uniformly for each craft under which a Preapprenticeship Program is administered and includes standards of admission, training goals, training objectives, curriculum outlines, objective standards to measure successful completion of the Preapprenticeship Program, and the percentage of credit that may be given to preapprenticeship completers upon acceptance into the apprenticeship program. 6A-23.010(2)(f)
16. **Related Instruction** - means an organized and systematic form of instruction designed to provide the apprentice with knowledge of the theoretical subjects related to a specific trade or occupation. 6A-23.002(20)
17. **School-To-Work** (S.T.W.) means programs that provide ways for students to transition successfully into the economy.
18. **Work Processes** - means an outline of supervised work experience and OJT with the allocation of approximate hours to be spent in each activity. 6A-23.002(22)

CONFORMANCE WITH STATE AND FEDERAL LAWS

The Florida Department of Education, Division of Career and Adult Education, Apprenticeship Program Section is properly established and constituted under applicable state law as the designated body for approval and registration of Preapprenticeship Programs and individual Preapprenticeship Agreements for state purposes.

No section of these standards shall be construed to permit violation of any law or regulation of the State of Florida or the United States. This program shall adhere to all local, state and federal laws pertaining to preapprenticeship.

The primary objective of the Preapprenticeship Program is to provide Florida residents with educational and training opportunities to enable them, upon completion of preapprenticeship training, to obtain entrance into a registered apprenticeship program, based upon the selection criteria established by a registered apprenticeship program sponsor. 6A-23.010(1)

Section I REGISTRATION OF PREAPPRENTICESHIP PROGRAM

These standards shall be submitted to the Apprenticeship Representative in the area to review, approve and forward to the Registration Agency for approval and registration. Four (4) original documents shall bear witness of the program's registration as evidenced by a Certificate of Registration issued by the Registration Agency's Certifying Official and issued in the name of the affiliated apprenticeship program sponsor(s), which have administrative responsibility. The program's registration shall be renewed at least every five (5) years by incorporating any amendments to the program training standards and re-submittal for approval and issuance of a Certificate of Registration. The program must be actively training Preapprentices within one (1) year of registration in each occupation for which registration is granted. Programs or occupations which go inactive

and remain the same (no registered participants' training occurring) for more than one (1) year shall be canceled by the Registration Agency. 6A-23.010(3) (f, h)

Section II COMPOSITION OF THE COMMITTEE

The Preapprenticeship Committee shall be composed of five (5) members. The committee shall include a Chairperson and a Secretary and shall meet at least quarterly.

6A-23.010(4) (d) 1

Section III DUTIES OF THE COMMITTEE

- 1) Screen and select applicants for preapprenticeship.
- 2) Maintain all records for a period of at least two years following an individual's completion or removal from the program.
- 3) Enter into Preapprenticeship Agreements between the Preapprentice and the committee as program sponsor and to submit these agreements to the Registration Agency for registration.
- 4) Maintain records of each Preapprentice's training progress in related classroom instruction/OJT.
- 5) Review regular progress reports for Preapprentices and recommend such actions as appropriate.
- 6) Provide continual support to Preapprentices to complete the Preapprenticeship Program in an apprenticeable occupation and prepare Preapprentices for entry into the sponsor's registered apprenticeship training program(s).
- 7) Arrange tests for determining the Preapprentice's progress in manipulative skills and technical knowledge.
- 8) Assure the Participating Employers have qualified Journeyworkers to oversee and train the Preapprentices when OJT is incorporated into the program.
- 9) Notify the Registration Agency of all other Preapprentice actions.
- 10) Notify the Registration Agency when Preapprentices have satisfactorily completed their preapprenticeship and request issuance of a certificate of completion.
- 11) Hear and adjust complaints of violations and make rulings as deemed necessary.
- 12) Recommend changes in the program to improve effectiveness and efficiency.
- 13) Notify the Registration Agency's servicing Apprenticeship Representative by phone or some kind of written correspondence of all Preapprenticeship Committee meetings and make available upon request, the official minutes of such meetings.
- 14) Provide preapprenticeship records for review, upon official request of the Registration Agency.
- 15) Determine minimum qualifications for entry into preapprenticeship.
- 16) In collaboration with the apprenticeship program sponsor(s), establish the percentage of credit that may be given to preapprenticeship completers upon acceptance into the sponsoring apprenticeship program(s).
- 17) Meet regularly with the L.E.A. if applicable, and consider/make program recommendations on all issues of preapprenticeship training and S.T.W. initiatives. The time/place of regular/special meetings shall be determined by the committee.
- 18) Maintain overall authority and be responsible in general for the successful operation of these standards by performing the duties listed above, by cooperating with public and private agencies which can be of assistance, by obtaining publicity in order to develop the support and interest of the public in the preapprenticeship, and by maintaining lines of communication between Preapprentices, Employers, L.E.A., Registration Agency and Journeyworkers. 6A-23.010(4)(d)1

Section IV RESPONSIBILITIES OF THE PREAPPRENTICE

- 1) Learn pre-requisite skills and knowledge for becoming an Apprentice.
- 2) Work faithfully and diligently at the occupation.
- 3) Complete promptly and carefully all lessons, assignments, and school tests required by the committee and the L.E.A.
- 4) Protect the property of the employer/school/program sponsor.
- 5) Respect and comply with all rules, regulations and policies of the employer affecting OJT.
- 6) Attend Related Instruction classes regularly.

6A-23.010(4)(d)5

Section V WORK PROCESS/ON-THE-JOB TRAINING

In all instances, the approved Participating Employer(s) will provide the Preapprentice(s) adequately supervised instruction and work experience of which a record will be kept and periodically evaluated, per the work process/on-the-job training outline included at the end of these standards. Such training shall be in a trade specifically registered in these standards. Work experience will be provided in approximately the number of hours shown, but not necessarily in the order shown. At no time shall the Preapprentice's wages be less than the Fair Labor Standards Act or by Florida Statutes. 6A-23.010(4) (d) 6

Section VI TERM OF PREAPPRENTICESHIP

The over all length of the training program will be determined by the program committee and will be realistic in terms of attainment relative to industry standards, but at no time shall it be less than six (6) months or longer than two (2) consecutive years.

The term of preapprenticeship shall be approximately 22 months. 6A-23.010(4) (x)

Section VII RELATED CLASSROOM INSTRUCTION see attachment: A

Preapprentices registered under these training standards shall be required to complete 360 hours of training during their preapprenticeship in subjects related to the trade in which they are registered. For Youth Programs, include the Course Title and Course Number after each school. 6A-23.010(4) (d) 4

Secondary Education Classes will be conducted at:

(School Name)

(School Address)

(School Address)

Course Title and Course Number

Section VIII PREAPPRENTICE WAGE RATE

The Participating Employer agrees to pay not less than the minimum wage prescribed for in the Fair Labor Standards Act or by Florida Statutes. The wage rate to be paid to preapprentices by a participating employer is: \$11.50 per hour. 6A-23.010(4) (d) 6 [Revised 8/17/21]

Section IX PREAPPRENTICE RECORDS

Records of the Preapprentice's training in Related Instruction, progression through the training program and hours spent in on-the-job training and wages if any, shall be retained for at least two years following completion of the preapprenticeship training or the date of the individual's departure from the program. If all of the records are not maintained on the respective school's campus, the Registration Agency shall be provided the location of where all of the program records will be maintained. All records regarding Preapprentices shall be available for review when requested by the Apprenticeship Representative or the Registration Agency. 6A-23.010(4) (j)

Section X RATIO OF PREAPPRENTICES

To ensure adequate supervision, training, safety and continuity of employment on the job site, the Preapprenticeship Committee shall ensure that no Preapprentices are placed on any job sites where they would not be under the direct supervision of a Journeyworker. It shall be the responsibility of the committee to ensure the allowable ratio of Apprentices/Preapprentices to Journeyworkers is maintained and not exceeded in the program as a whole, by each Participating Employer, and on-the-job site.

For construction related programs, the ratio of Preapprentices to Journeyworkers shall not exceed one (1) Preapprentice to each Participating Employer employing only (1) one Journeyworker and shall not exceed two (2) Preapprentices, Apprentices, or any combination thereof to every three (3) Journeyworkers beyond the first Journeyworker. 6A-23.010(4) (e) (f) (g)

Section XI SAFETY

The program shall comply with and instruct the Preapprentices in safety and healthful work practices and shall ensure that the Preapprentices are trained in facilities and other environments that are in compliance with Title 29 of the Code of Federal Regulations, Part 570 (Federal Child Labor); Chapter 61L-2 Florida Administrative Code (State Child Labor) and with Public Law 91-596 (Occupational Safety and Health Act). 6A-23.010(4) (c) (k)

Section XII MINIMUM QUALIFICATIONS

Applicants for preapprenticeship shall possess the following minimum qualifications:

- 1) At least 16 years of age; (Note: a minor must have written parental or guardian consent to participate in the program)
- 2) Physically capable of performing the work of the trade.
- 3) Registered at the start of each school year.

If required by the apprenticeship program sponsor and L.E.A., be enrolled in a program that includes career pathways instruction and general education courses required to obtain a high school diploma or equivalency certificate. 6A-23.010(4) (d, l) 5

[Revised 9/27/19]

Section XIII PREAPPRENTICESHIP AGREEMENT

Prospective Preapprentices shall have the right and opportunity to review, read and obtain a copy of these standards before they sign the Preapprenticeship Agreement. The Preapprentice shall be placed under a Preapprenticeship Agreement and this form is available from the Apprenticeship Representative and signed by the program sponsor and the Preapprentice (if a minor, their parent or guardian). The Preapprenticeship

Agreement incorporates the terms and conditions of training and these registered program standards as part of the agreement and shall be registered with the Registration Agency through the Apprenticeship Representative. The Preapprenticeship Agreement may be terminated by mutual consent at anytime and can be canceled for due cause and in the case of due cause, a reasonable opportunity for corrective action may occur upon mutual agreement. 6A-23.010(4) (b, m, q), (5) (f)

Section XIV PARTICIPATING EMPLOYERS

The committee shall determine how many qualified Journeyworkers are in the employment of each Participating Employer, so as not to violate the specified ratio. Each employer will sign a Participating Employer's agreement with the program sponsor accepting the requirements of the program standards and agreement to immediately provide the committee with the location of each Preapprentice's worksite. The Participating Employer's agreement shall contain the employer's current contact information and the employer shall notify the program of any changes in this information. 6A-23.010(4) (h, i)

Section XV SUPERVISION OF PREAPPRENTICES AND HOURS OF WORK

Preapprentices engaged in on-the-job training shall be under the direct supervision of a Journeyworker. The hours of work for Preapprentices shall be the same as those for the Journeyworker in the occupation covered by these standards and in conformity with State and Federal Laws. In assigning work to Preapprentices however, due consideration shall be given to the variety of operations necessary to develop their occupational skills. Overtime/OIT will not interfere with attendance at related instruction classes and/or secondary level high school classes and/or classes leading to the awarding of a high school diploma and/or equivalency certificate. 6A-23.010(4) (a)

Section XVI COMPLETION CERTIFICATE

The committee will recommend to the Registration Agency, through the Servicing Apprenticeship Representative, that a Certificate of Completion of Training be awarded to registered Preapprentices by use of the Action Report Form upon satisfactory completion of their term of preapprenticeship training. 6A-23.010(4) (w)

Section XVII AMENDMENTS TO THE STANDARDS

The training standards may be amended or modified at any time by action of the Preapprenticeship Committee after prompt submission to the Apprenticeship Representative and upon approval of the Registration Agency. Amendments shall not alter Preapprenticeship Agreements in effect at the time of such change without the express consent of all parties to the agreement. 6A-23.010(3) (g), (4) (u)

Section XVIII DEREGISTRATION

Deregistration of this program may be effected either upon the voluntary action of the program sponsor by a request for cancellation of the registration, or upon notice by the Registration Agency to the sponsor stating cause and instituting formal deregistration proceedings per Florida Administrative Code. If deregistered, the committee will notify the Preapprentices and the participating L.E.A. if applicable, within fifteen business days of this event. 6A-23.010(4) (u)

Section XIX NOTIFICATION

The Registration Agency shall be notified by use of the Action Report Form of all actions affecting Preapprentices, such as new preapprentices indentured, suspensions, cancellations, credit, repeat period O.J.T., repeat period of related instruction and completion's through the servicing Apprenticeship Representative. 6A-23.010(4) (v)

Section XX ADJUSTING DIFFERENCES

In case of dissatisfaction between an employer, if applicable and a Preapprentice, either party has the right and privilege of appeal to the committee for such action and adjustment of such matters as come within these standards. The Preapprentice shall be notified by the sponsor within five (5) business days of any proposed adverse action and cause therefore, with stated opportunity to the Preapprentice for corrective action during such period. Preapprentices may obtain information on how to properly address their concerns/grievances from the Program Sponsor. Differences that arise between the L.E.A if applicable, and the program sponsor involving program administration and/or execution, should be addressed to the Registration Agency in writing for resolution, adjustment, and/or decision. 6A-23.010(4) (r, s)

Section XXI LISTING OF PARTICIPATING EMPLOYERS see attachment: D

A listing of participating employers, to be kept current, is as follows: 6A-23.010(4) (i)

Section XXII EQUAL OPPORTUNITY PLEDGE

The recruitment, selection, employment and training of Preapprentices during their preapprenticeship shall be without discrimination because of race, color, religion, national origin, sex (including pregnancy and gender identity), sexual orientation, genetic information, or because they are an individual with a disability or a person 40 years old or older. The sponsor will take affirmative action to provide equal opportunity in preapprenticeship and will operate the preapprenticeship program as required under Title 29 of the Code of Federal Regulations, Part 30. 6A-23.010(4) (t)

Section XXIII AFFIRMATIVE ACTION PLAN

The committee shall provide equal opportunity in preapprenticeship for those seeking entrance into or participating in this Preapprenticeship Program for the purpose of obtaining entrance into a registered apprenticeship program. To provide equal opportunities in the recruitment, selection, employment, training and advancement of minority and female preapprentices, the committee agrees to make the following affirmative action commitments: (1). Disseminate in cooperation with the L.E.A if applicable, information to all applicants/students concerning the nature of preapprenticeship, availability of preapprenticeship opportunities, sources of preapprenticeship applications, and the equal opportunity policy of the committee. Information will be disseminated to government employment service offices, local schools, school and local career/job fairs events, women's centers, outreach programs, principal minority groups, women's organizations and community organizations which can effectively reach minorities and women. This information is encouraged to also be published in L.E.A./school newspapers/periodicals which are available

to students/parents, and newspapers which are circulated in minority communities and among women as well as the general areas in which the program sponsor operates. (2). Cooperate with local school boards and career pathways education systems to develop programs for preparing students to meet the standards and criteria required to qualify for entry into Preapprenticeship Programs and ultimately to qualify for entry into the program sponsor's registered apprenticeship program. 6A-23.010(4) (t)

Section XXIV SELECTION PROCEDURE

Selection of Preapprentices into this program shall be without discrimination, based on race, color, religion, national origin, sex (including pregnancy and gender identity), sexual orientation, genetic information, or because they are an individual with a disability or a person 40 years old or older. The applicable selection procedure for this program shall be a coordinated effort between the L.E.A. if applicable, the program sponsor, and will be performed as follows: High school students will apply to the program through their high school or vocational technical school indicating their trade preference. Following approval of eligibility of the student, as defined within the Academy of Construction Technologies (ACT) Program Requirements for the program, by their respective school district authorities, applications will be forwarded to the Committee for approval. Those applicants who meet the minimum program requirements will be indentured as preapprentices. 6A-23.010(4) (t)

Section XXV PROGRAM DEMOGRAPHICS [Revised 8/17/21]

- a) Jurisdictional Area Covered by Program (Counties): Orange, Osceola, Seminole, Lake, Polk & Sumter.
- b) Total Journeyworkers employed by the Participating Employers in the craft: 375
- c) Total Preapprentices: 146
- d) Total minority Preapprentices: 12
- e) Total female Preapprentices: 8

Section XXVI MAINTENANCE OF RECORDS

All records pertaining to the administration, selection, employment and training of Preapprentices shall be kept for not less than two years following the individual's date of departure from the program.

Preapprenticeship Program records shall be maintained at the following address: 6A-23.010(4) (j)

Academy of Construction Technologies, Inc. office
2900 W. Oak Ridge Road
Building 1600, Room 139
Orlando, FL 32809

Attachments:

- A) Related Training Classes Locations
- B) Related Technical Instruction
- C) On the Job Work Process
- D) List of Participating Employers

LAKE COUNTY:

Leesburg High School
1401 Yellow Jacket Way
Leesburg, FL 34748
Building Construction Technology - Program # 8720300
Electricity - Program # 8727200

Eustis High School
1801 Bates Ave.
Eustis, FL 32726
Building Construction Technology - Program # 8720300

South Lake High School
15600 Silver Eagle Road
Groveland, FL 34736
Building Construction Technology - Program # 8720300

Umatilla High School
320 N Trowell Ave.
Umatilla, FL 32784
Air Conditioning, Refrigeration & Heating Technology - Program # 8723000

Lake Technical College
2001 Kurt Street
Eustis, FL 32726
Air Conditioning, Refrigeration & Heating Technology - Program # 8723000

ORANGE COUNTY:

Orange Technical College/Mid Florida Campus (Electrician & Heating & A/C Installer)
2900 W Oak Ridge Road
Orlando, FL 32809
Electricity – Program # I460312
Air Conditioning, Refrigeration & Heating Technology 1 - Program # C400410
Air Conditioning, Refrigeration & Heating Technology 2 - Program # C400420

Orange Technical College/Westside Campus (Electrician, Heating & A/C Installer & Maintenance Repairer, Building)
955 E Story Road
Winter Garden, FL 34787
Electricity – Program # I460312
Air Conditioning, Refrigeration & Heating Technology 1 - Program # C400410
Air Conditioning, Refrigeration & Heating Technology 2 - Program # C400420
Building Construction Technologies – Program # I460401

Olympia High School
4301 S Apopka Vineland Road
Orlando, FL 32835
Building Construction Technology Program # 8720300

West Orange High School
1625 Beulah Road
Winter Garden, FL 34787
Building Construction Technology Program # 8720300

Fort Meade Middle-High School
700 Edgewood Drive N
Fort Meade, FL 33841
Building Construction Technology – Program # 8720300

Roosevelt Academy
115 E Street
Lake Wales, FL 33853
Cabinetmaking – Program # 81044000

Lake Region High School
1995 Thunder Road
Eagle Lake, FL 33839
Building Construction Technology – Program # 8720300

Tenoroc High School
4905 Saddle Creek Road
Lakeland, FL 33801
Building Construction Technology – Program # 8720300
Electricity – Program # 8727200

Kathleen High School
1100 Red Devil Way
Lakeland, FL 33815
Electricity – Program # 8727200

SUMTER COUNTY:

The Villages High School
251 Buffalo Trail
The Villages, FL 32162
Building Construction Technology - Program # 8720300

Wildwood Middle-High School
700 Huey Street
Wildwood, FL 34785
Electricity – Program # 8727200
Air Conditioning, Refrigeration & Heating Technology – Program # 8723000

Section XXVII ATTACHMENT B: PREAPPRENTICE RELATED TECHNICAL INSTRUCTION

TRADE TRAINING AVAILABILITY BY SCHOOL DISTRICT [Revised 08/01/2021]

TRADE	ORANGE	OSCEOLA	SEMINOLE	LAKE	POLK	SUMTER
Bricklayer		x				
Electrician	x	x	x	x	x	x
Heating & Air Conditioning Installer-Servicer	x	x	x	x		x
Maintenance Repairer, Building	x	x	x	x	x	x
Plumber		x				
Carpentry		x			x	

**CURRICULUM FOR
ELECTRICAL
PREAPPRENTICESHIP PROGRAM**

Curriculum for Students Entering in the 11th Grade:

11th: 1 to 3 credits in class/lab / **12th:** 1 to 3 credits in class/lab / **OJT in Summer:** (160 Hours) 1 + credits

Year 1: 180 Hours

01. Demonstrates proper and safe procedures while working with tools, apparatus, equipment, systems, and materials.
02. Demonstrates appropriate math skills for the construction trades.
03. Select, inspect, operate, and maintain common hand tools used in the construction trades.
04. Select, inspect, operate, and maintain common power tools used in the construction trades.
05. Identify basic procedures for rigging and moving materials and equipment.
06. Identify materials used in the electrical construction trade.
07. Demonstrates an understanding of workplace readiness and workplace ethics.
08. Perform basic electrical laboratory safety and calculation skills.
09. Demonstrates residential wiring skills.
10. Demonstrates appropriate communication and customer-relation skills.
11. Demonstrates employability skills.

Year 2: 180 Hours

01. Demonstrates the ability to read and interpret blueprints and construction trade documents.
02. Demonstrates an understanding of the make-up of the construction industry.
03. Demonstrates basic electrical circuit skills.
04. Demonstrates direct current (DC) circuit skills.
05. Read and interpret basic electric codes.
06. Demonstrates an understanding of entrepreneurship.

CURRICULUM FOR BRICKLAYER PREAPPRENTICESHIP PROGRAM

Curriculum for Students Entering in the 11th Grade:

11th: 1 to 3 credits in class/lab / **12th:** 1 to 3 credits in class/lab / **OJT in Summer:** (160 Hours) 1 + credits

Year 1: 180 Hours

01. Demonstrates proper and safe procedures while working with tools, apparatus, equipment, systems, and materials.
02. Characterize the masonry industry.
03. Demonstrates appropriate math skills for the construction trades.
04. Select, inspect, operate, and maintain common hand tools used in the construction trades.
05. Select, inspect, operate, and maintain common power tools used in the construction trades.
06. Identify basic procedures for rigging and moving materials and equipment.
07. Erect and disassemble basic scaffolds.
08. Select and mix mortars and concrete.
09. Demonstrates an understanding of workplace readiness and workplace ethics.
10. Identify the various methods of masonry practices.
11. Demonstrates appropriate communication and customer-relation skills.
12. Demonstrates employability skills.

Year 2: 180 Hours

01. Demonstrates the ability to read and interpret blueprints and construction trade documents.
02. Describe the properties, characteristics, and uses of brick.
03. Describe the properties, characteristics, and uses of concrete.
04. Lay brick and/or block to the line.
05. Clean masonry.
06. Demonstrates an understanding of entrepreneurship.

**CURRICULUM FOR
PLUMBING
PREAPPRENTICESHIP PROGRAM**

Curriculum for Students Entering in the 11th Grade:

11th: 1 to 3 credits in class/lab / **12th:** 1 to 3 credits in class/lab / **OJT in Summer:** (160 Hours) 1 + credit

Year 1: 180 Hours

01. Describe career and training opportunities in the plumbing industry.
02. Demonstrate a basic knowledge of the plumbing industry.
03. Select, inspect, operate, and maintain common hand and power tools used in the plumbing industry.
04. Identify safe working conditions and observe safety precautions.
05. Demonstrate appropriate math skills for the plumbing industry.
06. Identify basic procedures for rigging and moving materials and equipment.
07. Demonstrate an understanding of basic science.
08. Read and interpret blueprints and specifications.
09. Demonstrate appropriate communication and customer-relation skills.
10. Demonstrate employability skills.
11. Demonstrate an understanding of workplace readiness and workplace ethics.

Year 2: 180 Hours

01. Demonstrate the ability to read and interpret plumbing drawings and trade documents.
02. Demonstrate installation and support methods for pipe types and fittings.
03. Describe inside drain, water and vent systems.
04. Describe fixture types installed in plumbing jobs.
05. Select and install faucet connections.
06. Read and interpret basic plumbing codes.
07. Identify the parts of water distribution from source to the building.
08. Demonstrate an understanding of entrepreneurship.

**CURRICULUM FOR
MAINTENANCE REPAIRER, BUILDING
PREAPPRENTICESHIP PROGRAM**

Curriculum for Students Entering in the 11th Grade:

11th: 1 to 3 credits in class/lab / **12th:** 1 to 3 credits in class/lab / **OJT in Summer:** (160 Hours) 1 + credit

Year 1: 180 Hours

01. Demonstrates proper and safe procedures while working with tools, apparatus, equipment, systems, and materials.
02. Demonstrate a basic knowledge of the maintenance industry and describe career and training opportunities.

03. Demonstrates appropriate math skills for the construction trade.
04. Ability to read and interpret blueprints and construction trade documents.
05. Select, inspect, operate and maintain common hand and power tools used in the construction trade.
06. Identify basic procedures for rigging and moving materials and equipment.
07. Demonstrate an understanding of handling and placing concrete.
08. Demonstrates an understanding of masonry and installation techniques.
09. Demonstrates an understanding of workplace readiness and workplace ethics.
10. Demonstrates appropriate communication and customer-relation skills.
11. Demonstrates employability skills.

Year 2: 180 Hours

01. Demonstrate basic wall, ceiling and roof framing.
02. Identify roofing applications.
03. Basic understanding of exterior finishing.
04. Identify electrical safety and demonstrate basic maintenance of residential electrical services.
05. Demonstrate basic knowledge of heating and air conditioning (HVAC) maintenance.
06. Demonstrate basic knowledge of drain, waste, and vent (DMV) Systems.
07. Demonstrate an understanding of the difference between plastic pipe/fittings and copper pipe/fittings.
08. Demonstrate an understanding of entrepreneurship.

CURRICULUM FOR HEATING AND AIR CONDITIONING INSTALLER-SERVICER PREAPPRENTICESHIP PROGRAM

Curriculum for Students Entering in the 11th **Grade:**

11th: 1 to 3 credits in class/lab / **12th:** 1 to 3 credits in class/lab / **OJT in Summer:** (160 Hours) 1 + credit

Year 1: 180 Hours

01. Describe career and training opportunities in the HVAC industry.
02. Describe the history and concepts of the heating, air-conditioning and refrigeration industry.
03. Select, inspect, operate, and maintain common hand and power tools and accessories used in the HVAC industry.
04. Identify safe working conditions and observe safety precautions.
05. Demonstrate appropriate math skills for the HVAC industry.
06. Identify basic procedures for rigging and moving materials and equipment.
07. Demonstrate an understanding of matter, heat behavior and the basic principles of heating and cooling.
08. Read and interpret blueprints and specifications.
09. Demonstrate appropriate communication, computer and customer-relation skills.
10. Demonstrate employability skills.
11. Demonstrate an understanding of workplace readiness and workplace ethics.

Year 2: 180 Hours

01. Demonstrate the ability to read and interpret HVAC drawings and trade documents.
02. Identify tools, material and safety precautions for soldering and brazing pipe.
03. Demonstrate a working knowledge of fluids, pressures and refrigerants.
04. Fabricate and service the piping, tubing, and fittings used in the heating, air-conditioning, and refrigeration industry.
05. Demonstrate a practical knowledge of basic electricity and of the electrical components of heating, air-conditioning, and refrigeration equipment.
06. Read and interpret basic HVAC codes.
07. Describe the components and accessories used in air-conditioning and heating systems.
08. Demonstrate an understanding of entrepreneurship.

CURRICULUM FOR CARPENTRY PREAPPRENTICESHIP PROGRAM

Curriculum for Students Entering in the 11th Grade:

11th: 1 to 3 credits in class/lab / **12th:** 1 to 3 credits in class/lab / **OJT in Summer:** (160 Hours) 1 + credit

Year 1: 180 Hours

01. Demonstrates proper and safe procedures while working with tools, apparatus, equipment, systems, and materials.
02. Demonstrate a basic knowledge of the maintenance industry and describe career and training opportunities.
03. Demonstrates appropriate math skills for the construction trade.
04. Ability to read and interpret blueprints and construction trade documents.
05. Select, inspect, operate and maintain common hand and power tools used in the construction trade.
06. Identify basic procedures for rigging and moving materials and equipment.
07. Demonstrate an understanding of handling and placing concrete.
08. Demonstrates an understanding of masonry and installation techniques.
09. Demonstrates an understanding of workplace readiness and workplace ethics.
10. Demonstrates appropriate communication and customer-relation skills.
11. Demonstrates employability skills.

Year 2: 180 Hours

01. Demonstrate basic wall, ceiling and roof framing.
02. Identify roofing applications.
03. Basic understanding of exterior finishing.
04. Demonstrate basic knowledge of electrical services.
05. Demonstrate basic knowledge of heating and air conditioning (HVAC) maintenance.
06. Demonstrate basic knowledge of drain, waste, and vent (DMV) Systems.
07. Demonstrate basic knowledge of plastic pipe/fittings and copper pipe/fittings.
08. Demonstrate an understanding of entrepreneurship.



Attachment D

LIST OF PARTICIPATING EMPLOYERS

BRICKLAYER

Pyramid Masonry Contractors, Inc.

ELECTRICIAN

A&B Electric Company
Aireko Energy Solutions
Accurate Electrical Connection
APG Electric, Inc.
Bright Future Electric, LLC
Cress Company
Electric Services, Inc.
Grassland Electrical Contracting
L.C. Electric
Service Complete Electric
Territo Electric, Inc.
Terry's Electric, Inc.
Tri-City Electrical Contractors, Inc.

HEATING & A/C INSTALLER/ SERVICER

Comprehensive Energy Services
Del-Air

MAINTENANCE REPAIRER, BUILDING

Competitive Edge Partners (CEP)
Heichel Plumbing, Inc.

PLUMBER

Modern Plumbing Industries, Inc.
Ross Plumbing
S.I. Goldman Company, Inc.

CARPENTER

Acousti Engineering Company of Florida
WELBRO Building Corporation
Wharton-Smith