



CAPSTONE
COLLEGE

School Catalog

2024

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ADMINISTRATION

Lou Rodriguez	School Director
Bridget Baumgartner	Financial Aid Director
Angelica Martinez	Senior Financial Aid Officer
Genesis Olvera	Registrar
Adriana Zamora.....	Admissions Representative
Dennis Alvarez	Director of Admissions & Marketing
Sulma Rivas	Director of Career Services

FACULTY

Mr. Mike Mabry, HVAC Instructor: Mr. Mabry is a technical trainer with over 50 years of experience. He has worked in numerous fields in the commercial and industrial sectors. His competencies span across application development, technician training, and technology support from commercial units to chillers and controls.

Mr. Armando Alaniz, HVAC Instructor: Mr. Alaniz has 8 years of experience in the industry working in residential and commercial systems. He holds numerous certifications in the Building Automation field, with experience in installing and programming Carrier controls. He also holds an EPA Universal 608 and is a test proctor.

Mr. Alexis Benitez, HVAC Instructor: Mr. Benitez is a California HVAC Contractor and business owner with a C-20 license. Mr. Benitez earned a Bachelor of Science in Business Administration from California State University, Los Angeles. He has over 8 years of HVAC work experience and holds numerous professional certifications and EPA certified Universal.

Mr. Joe Torres, Electrician Instructor: Mr. Torres has over 20 years of Electrical, HVAC and Building Engineering related experience, including facility management, and building automation systems. Mr. Torres completed classes in Electrical Construction and Maintenance Construction Technologies at Los Angeles Trade and Technical College. He holds numerous professional certifications. Mr. Torres, a member of the IUOE local 501 was previously a member of the IBEW local 441 as a General Electrician Journeyman.

Mr. Ricardo Casillas, Electrician Instructor: Mr. Casillas has over 15 years of Electrical, HVAC and Building Engineering related experience, including facility management, and building automation systems. Mr. Casillas completed classes in Electrical Construction and Maintenance Construction Technologies at Los Angeles Trade and Technical College. Mr. Casillas is a member of the IUOE local 501 as a Journeyman.

Mr. Jack McCarty, Electrician Instructor: Jack McCarty, Electrician Instructor: Mr. McCarty has over 6 years' experience in the electrical field including residential, commercial, industrial, photovoltaics, and electrical education. He has over three years of experience teaching classes at private vocational colleges across California and has completed continuing education classes through WECA, CAPPS, University of Boulder Colorado, as well as a variety of other professional institutions.

Mr. Andres Galeana, Electrician Instructor: Mr. Galeana is a California Electrical Contractor and business owner with a C-10 license. Mr. Galeana earned an Associate of Applied Science with honors from DeVry University and has over 18 years' experience in the electrical field including residential, commercial, industrial, photovoltaics, and electrical education and holds numerous professional certifications.

Mr. Edmundo Morales, Electrician Instructor: Mr. Morales is a technical trainer with over 17 years' experience in the electrical field including residential, commercial, industrial, and electrical education and holds numerous professional certifications. He holds an Electrical Technology Certificate from WyoTech.

Mr. Ruben Sandoval, Plumbing Technician Instructor. Mr. Sandoval is a California Contractor and Business Owner with a C-36 Plumbing License. Mr. Sandoval has over 10 years of experience in the Plumbing industry including residential, commercial, and industrial settings. Mr. Sandoval earned a Certificate in Plumbing Construction and Operation and Maintenance Engineering (Steam Plant) from LA Trade Tech College. He also, holds a Certificate in Facilities Management from UC San Diego and is attending Indiana State University Bachelor's Construction Management Program.

Mr. Fred Borquez, Plumbing Technician Instructor: Mr. Borquez is a plumbing business owner with over 30 years of experience in the Plumbing industry including residential, commercial, and industrial settings. Mr. Borquez earned an Associate of Arts Degree (AS) in Building Construction from Pasadena City College.

SCHOOL PHILOSOPHY and MISSION STATEMENT

The philosophy of Capstone College is based on a wholistic approach that provides students with the training, skills, habits, and attitudes required for success in the workplace. Capstone College provides an educational environment and a flexible instructional process adapted to individual students' needs.

Our Mission: To offer vocational educational programs designed to meet the academic and technical standard expectations of industry for students to become successfully employed in their chosen career field, foster life-long learning and meet the changing needs of the students and the communities we serve.

Our Objectives: Capstone College supports its mission by an on-going review of its educational process, industry standard expectations and effectively serving our students and communities by:

- Providing instruction based on job-specific curriculum design with industry-experienced faculty.
- Using instructional materials and equipment that meets industry standards and expectations.
- Providing Student Support and Career Services to assist graduates with job placement.
- Obtaining employer feedback to ensure programs remain relevant.

APPROVAL DISCLOSURE STATEMENT

Capstone College is a private institution located at 1200 N. Fair Oaks Ave., #32 in Pasadena, California. The school is approved to operate by the Bureau for Private Postsecondary Education. The Bureau approval means that the institution and its operations comply with the standards established under the law for occupational instruction by private postsecondary educational institutions. Institutional approval must be renewed and is subject to continuing review. Capstone College is also approved for the training of veterans. The following are approved currently offered courses:

HVAC TECHNICIAN	750 CLOCK HOURS	55.75 Quarter Credit Units
ELECTRICIAN	792 CLOCK HOURS	66.5 Quarter Credit Units
PLUMBING TECHNICIAN	750 CLOCK HOURS	58.75 Quarter Credit Units

Instruction is in residence with Capstone College occupancy level accommodating 90 students at any one time.

California statute requires that a student who successfully completes a course of study be awarded an appropriate certificate verifying the fact.

Prospective students are encouraged to visit the physical facilities of the school and discuss personal educational and occupational plans with school personnel prior to enrolling or signing an enrollment agreement.

Instruction is provided in English and in no other language. English as-a-second language is not provided. The level of English language proficiency is required at the level of a high school diploma or GED certificate.

I declare under penalty of perjury under the laws of the State of California that the foregoing and all attachments are true and correct.



Signature: _____

School Official

ACCREDITATION

Capstone College is accredited by the Accrediting Council for Continuing Education and Training (ACCET), an accrediting agency recognized by the United States Department of Education.

SCHOOL HISTORY

Capstone College is located in Pasadena, California near the Foothill Freeway (I-210). The Institution was founded in 1987 as Adelante Career College. The stockholders were Merrill Lyons and Janet Grossfeld. In 2006, Merrill Lyons became the sole stockholder of the corporation. On April 2, 2009, Capstone College, LLC, a division of Capstone Education acquired the institution and changed the name to Capstone College. The governing board members of Capstone College are J. Ramon Villanueva and Mark Hecht.

FACILITIES

Capstone College is housed in an 8,400 square foot facility consisting of offices and classrooms with a capacity for ninety students. The building has full handicapped access, convenient sanitary facilities, and a relaxing atmosphere. Student parking is available at no extra charge. The classrooms are adequately furnished and equipped with up-to-date instructional equipment to enable the students to develop the skills in current demand by employers. Personal computers and printers are available for students' use with internet access.

The facilities and equipment fully comply with all federal, state and local ordinances and regulations. Reference materials are made available including books, publications, and trade magazines current and relevant to industry are maintained. A digital library, Perlego, is also made available to students. Students are issued membership access to Perlego upon enrollment and start of class. Technical support is available to students and staff to ensure efficacy of use of the reference materials. Materials are reviewed and selected by faculty for relevance and incorporated into the syllabus using the Canvas LMS.

CLASS SIZES

Capstone College maintains class sizes that allow for an individualized instructional approach. Maximum class sizes are 30 students in a lecture class with no more than 15 students per instructor in a laboratory class setting.

ADMISSIONS POLICY AND PROCEDURE

1. All applicants are required to complete an application for admission and an enrollment agreement prior to the start of any class. We welcome high school graduates, students with GEDs, and non-high school graduates without any additional requirements.
2. Completion of a personal interview with an Admissions Representative is also a requirement for admission. The interview enables administrators to determine the qualifications of a potential applicant. It is also designed to provide the candidate with a better understanding of career fields, program descriptions, school information, and a tour of campus.
3. Applicants must be at least 18 years old or 16 years old with parent or legal guardian to sign an enrollment agreement.
4. Admissions Procedure for students with special needs: The institution accepts applicants with physical or mental handicaps or learning disabilities. The building and bathrooms are handicapped accessible. The individual will be counseled by the Director of the school as to the realities of employment at the completion of training and may be asked to sign a statement to that effect.

GRADUATION REQUIREMENTS AND COURSE COMPLETION

Successful completion of a course is based on written examination, class work, and demonstration of competency in performing the established occupational objectives of the program.

Students are awarded a Certificate for successful completion of all graduation requirements for the chosen program of study. Graduation requirements include a minimum grade point average (GPA) of 2.0, a minimum completion of 80% of the hours of the program, and payment in full of all tuition and fees.

TRANSCRIPTS

Students may request official or unofficial transcripts at any time. Transcript requests must be in writing. Transcripts will not be released if the student has an outstanding financial obligation to the college. Transcript requests are forwarded to the school Registrar.

ATTENDANCE POLICY

Students are expected to attend classes regularly. Absences from class can seriously affect the quality of the training and the student's potential in the job market. It is recognized that certain situations may arise from time to time over which a student has no control. However, it is the responsibility of the student to notify the school in advance if they will be absent or late, just as it is necessary to inform an employer.

ELEMENTS OF SATISFACTORY ATTENDANCE

Absenteeism: Students are expected to maintain a minimum of 80% of attendance throughout the enrollment period. Attendance is checked at a minimum every (8) eight weeks. Failure to maintain satisfactory attendance will result in Attendance Probation for a period of Sixty (60) days. The probation period may be extended by an additional thirty (30) days if the student shows improvement toward achievement of the 80% minimum requirement. If at any time the student stops making improvement or it is determined that academic performance does not indicate successful completion, the student may be terminated from program. Students with (10) ten days of continuous non-attendance will automatically be considered withdrawn from the program.

Excused Absences: An EXCUSED absence is considered only when the student notifies the school on the day, or prior to the day, of the absence, or under special circumstances such as illness, and provides a written note specifying the reason for the absenteeism. The student may notify the registrar, instructor, or the administration office. The absence will be recorded as excused however excused absences are included in the calculation to determine the minimum attendance requirement.

“Tardiness” A tardy is defined as arriving to class more than 15 minutes late.

“Early Departure” An early departure is defined as leaving the class more than 15 minutes before the end of the class or lab schedule.

Students arriving late or leaving early will be deducted one hour of the scheduled time.

Make-up Time, Work and Exams: Students must achieve and maintain satisfactory progress and attendance. Failure to achieve progress of attendance benchmarks will result in probation. If deficiency is not corrected within the probationary period (sixty-days), the student will be withdrawn from the program. Make-up time is allowed for a maximum of 10 percent of the time of the entire program. Students are responsible for making arrangements with the instructor to schedule make-up time and work.

CLOCK HOUR TO CREDIT CONVERSION

Capstone College measures all programs based on the Quarter Credit Hour system as follows:

1 Quarter Credit Hour is awarded for every:
10 Hours of Lecture 20 Hours of Laboratory 30 Hours of Internship/Externship

A Clock Hour equals sixty (60) minutes of instruction with (10) minutes allowed for class break.

GRADING SYSTEM

Capstone College uses the following letter grade system to evaluate academic performance:

100 - 90	A = 4.0	69 – 60	D = 1.0
89 - 80	B = 3.0	Below 59	F = 0.0
79 - 70	C = 2.0	I = Incomplete	(No point value)

STANDARDS OF SATISFACTORY ACADEMIC PROGRESS

For purposes of measuring Academic Progress, students must maintain a minimum of a 2.0 grade point average throughout the entire enrollment period. Academic progress is verified at the completion of a course module (level) within the educational program but no sooner than fifteen (15) weeks.

At the midpoint of the program, measured by scheduled hours, the student must have completed a minimum of eighty (80) percent of the scheduled hours and achieve a 2.0 grade point average. If a student does not meet the requirements at midpoint, financial aid will be suspended, and the student will be placed on a sixty (60) day probation period. Upon attainment of satisfactory progress, financial aid eligibility will be reinstated. Failure to achieve the minimum requirement at the end of the sixty (60) day period will result in termination by the education department. Students are notified in writing for failure to meet SAP.

PROBATION, TERMINATION AND REINSTATEMENT:

Academic and Attendance Probation: Students who fall below the minimum requirement of a 2.0 grade point average are placed on Academic Probation. Students with less than 80% of the scheduled attendance are placed on Attendance Probation. The probation period is for sixty (60) days in which students are expected to demonstrate improvement towards meeting the minimum requirements. Failure to improve and meet the minimum progress requirements by the next scheduled progress verification point will result in dismissal.

Termination: A student will be terminated if at the end of a probationary period, the student has not corrected all progress deficiencies. A student may also be terminated for violation or noncompliance of school policy.

Reinstatement and Appeal Process: A student may request reinstatement by requesting re-enrollment. Re-enrollment may be granted at the discretion of the School Director. For students who are terminated as a result of failure to meet satisfactory progress or attendance policy, may request reinstatement. However, if reinstatement is granted, the student will be placed on probation for a period of sixty days and will be expected to comply with the minimum requirement of completing ninety percent of the total hours by the end of the probation period. A viable academic plan must be included when the probation appeal is granted.

TRANSFER OF CREDIT POLICY and PROCEDURE

Advanced placement/transfer of credit may be requested and awarded up to a maximum of one-third of the total program credit hours based on the following policy:

1. Transfer credits for classes from another institution must have a minimal grade of B or 80%.
2. Transfer credit must be from a class that;
 - a) Is in an equivalent discipline;
 - b) Consists of a minimum of 80% of the hours as the corresponding class offered at Capstone College;
 - c) The coursework was completed at an accredited postsecondary institution; and
 - d) An official catalog and transcript from the transferring institution is required for evaluation of the content for transfer.
3. Credit based on life experience/knowledge must be earned by a grade of B or 80% on a Capstone administered exam, which will be the same as the final exam or series of tests administered for the challenged class.
4. Tuition and fees will be adjusted on a pro rata basis per credit hour transferred.
5. Any adjustments in credit hours or weeks may impact financial aid eligibility as determined by Title IV regulations.
6. The transferability of credit is dependent on the receiving institution. Therefore, Capstone cannot guarantee that other schools will accept credits completed at Capstone for transfer. However, Capstone will assist students when requesting transfer to other institutions by providing guidance or counseling and providing an official transcript, catalog and course outlines.
7. Appeal process for denial of transfer of credit: A student may appeal the denial by writing a letter to the School Director. Director will meet with the appropriate faculty and the registrar to review the student's documentation submitted to support transfer of credit. The student shall be notified within 48 hours of the school's decision.
8. Capstone College has not entered into an articulation or transfer agreement with any other college or university.

NOTICE CONCERNING TRANSFERABILITY OF CREDITS AND CREDENTIALS EARNED AT OUR INSTITUTION

The transferability of credits you earn at Capstone is at the complete discretion of an institution to which you may seek to transfer. Acceptance of the credits or certificate you earn in any of our programs is also at the complete discretion of the institution to which you may seek to transfer. If the credits or certificate that you earn at this institution is not accepted at the institution to which you seek to transfer, you may be required to repeat some or all your coursework at that institution. For this reason, you should make certain that your attendance at this institution will meet your educational goals. This may include contacting an institution to which you may seek to transfer after attending Capstone to determine if your credits or certificate will transfer.

Decisions to accept credits from another educational institution rest entirely with each receiving institution and are usually accessed and considered on a case by case, course by course basis. Capstone, while fully accredited, does not currently possess the same type of accreditation as most four-year colleges and universities offering associate, baccalaureate, and beyond, programs and degrees. Prospective students of Capstone will need to consider this if they plan to continue their academic credentials.

NON-DISCRIMINATION CLAUSE

No person shall be denied admission, graduation, or any other rights or privileges of the School because of race, creed, sex, religion, national origin, age, or physical disabilities. The institution accepts applicants with physical or mental handicaps or learning disabilities. The building, bathrooms, elevators, and classrooms are all handicapped accessible. Special procedures for administration of these tests may be utilized where appropriate and as designated by the test publisher. The individual will be counseled by the Director of the school as to the realities of employment at the completion training and may be asked to sign a statement to that effect.

MAXIMUM TIME FRAME

Maximum Time Frame Schedule:

Maximum time frame is calculated based on an academic year of 36 quarter units. Students must satisfactorily complete 18 for every 27 units attempted for a maximum time frame of 150%. The minimum passing grade is 70% or C. Maximum time frame is measured on a course-by-course basis.

Electrician 66.4 Units

Course Title	Length In Units	Maximum Time Frame
Electrician Training 1	11.0	16.5
Electrician Training 2	9.9	14.8
Electrician Training 3	9.9	14.8
Electrician Training 4	12.6	18.9
Electrician Training 5	11.5	17.2
Electrician Training 6	11.5	17.2
TOTAL	66.4	99.4

HVAC Technician 56.5 Units

Course Title	Length In Units	Maximum Time Frame
HVAC Trade Orientation, Human Relations, Safety First Aid, Construction Math and Electrical Troubleshooting	7.5	13.8
HVAC Air Conditioning and Heating Fundamentals	7.25	10.8
HVAC Tools, Materials and Supplies	7.25	10.8
HVAC EPA Refrigerant Certification, HVAC Systems Labs, Inverter Mini Splits and an Introduction to Variable Refrigerant Flow (VRF) Systems	7.5	11.2
HVAC Theory	7.5	11.2
HVAC Electrical, HVAC Schematics, National and Local Codes	7.5	11.2
Brazing & Soldering, HVAC Sheet Metal Installation, Air Movement, Measuring Air Flow and Air Distribution	7.5	11.2
Refrigerants, & Charging Techniques	3.75	5.6
TOTAL	55.75	83.62

Plumbing Technician 58.75 Units

Course Title	Length In Units	Maximum Time Frame
Plumbing Technician PLU 101	4.25	6.3
Plumbing Technician PLU 102	8.5	12.7
Plumbing Technician PLU 103	8.0	16.0
Plumbing Technician PLU 104	7.5	11.2
Plumbing Technician PLU 105	7.5	11.2
Plumbing Technician PLU 106	7.5	11.2
Plumbing Technician PLU 107	8.0	16.0
Plumbing Technician PLU 108	7.5	11.2
TOTAL	58.75	95.8

INCOMPLETE COURSES

The Instructor shall record an "Incomplete" grade whenever the student misses an examination, test, or any other element required in the course necessary for the full evaluation of the student's progress. The completion of the missing element, within five (5) days of the last class of the course, will result in the replacement of the "I" grade with a letter grade. If the missing element has not been completed at the conclusion of that time, an "F" will be recorded automatically for the affected subject. Exceptions to this rule may be made by the School Director or Director of Education due to documented extenuating circumstances. An Incomplete grade will stand, in lieu of the F, for those who did not complete a class due to an approved Leave of Absence.

LEAVE OF ABSENCE (LOA)

A leave of absence may be granted based on the following policy and procedures:

1. A student must request the leave of absence in writing in advance of the beginning date of the leave of absence unless unforeseen circumstances prevent the student from doing so. If a student does not request a leave of absence within a timeframe consistent with the institution's consecutive absence policy, he or she must be withdrawn.
2. The leave of absence is limited to 180 calendar days in one calendar year, or one-half the published program length, whichever is shorter. Multiple leaves of absence may be permitted provided the total of the leaves does not exceed this limit.
3. The student must sign the leave of absence request and specify a reason for the leave in order for the institution to have a reasonable expectation of the student's return within the timeframe of the leave of absence as requested.
4. The student must attest to understanding the procedures and implications for returning to his/her course of study.
5. The institution will document approval of the leave of absence request in accordance with this policy.
6. The institution will not assess the student any additional charges as a result of the leave of absence.
7. An approved leave of absence may be extended for an additional period of time provided that the extension request meets all the above requirements, and the total length of the leave of absence does not exceed the specified limit, as noted in item 2.

Subsequent LOAs will only be granted for jury duty, military reasons, work conflict or circumstances covered under the Family and Medical Leave Act of 1993 (FMLA) (Public Law 103-3) enacted February 5, 1993. Students who are on probation when beginning a LOA will re-enter under the same probationary conditions as when they left their program. Regardless of the number of leaves granted, in no case may the total LOA time exceed the maximum length described above.

A leave of absence may require adjustment of financial aid and revision of the graduation date. Students are advised to meet with a financial aid office representative to make this determination.

REPETITION OF COURSEWORK

Students who fail a course or level with grade below "C" may repeat the course work within the maximum time frame permitted, and if a higher grade is attained the second time, the improved result will be recorded; both grades will be averaged in the GPA.

APPEALS

A student placed on probation can file an appeal with the School Director. The School Director may require that the appeal be in writing and that it be supported by documentation establishing the facts on which the appeal is based. Under special circumstances, the School Director may grant one additional probation period to the student. The Director's decision is final.

STUDENT CONDUCT POLICY

All students have the right to a training environment conducive to learning job skills. Unfavorable conduct will result in disciplinary probation, suspension, or termination. Capstone College reserves the right to dismiss any student whose conduct, poor attendance, or scholastic performance is judged by the Director to reflect unfavorably upon the Institution, staff and other students.

MODIFICATION OF COURSES

As demands of the job market change, course changes are necessary to keep pace with industry expectations. Capstone reserves the right to make course modifications accordingly to remain relevant with industry standards and expectations. Book and supply substitutions may be made as required without prior notice. Curriculum may vary somewhat for each individual.

PROGRAM OR CLASS CHANGE

The Institution recognizes that student's circumstances may change over time. While program and class changes are generally discouraged, they may be possible upon the approval of the Director. All changes must be requested and approved in writing.

TUITION POLICY

Total tuition and fees for a program are due and payable upon starting classes for the specified term or enrollment period. The following methods of payments are accepted, Cash, Check, Money Order, Credit and/or Debit Card. Arrangements will be made for students to make payments according to a schedule acceptable to the student and the school. The specific payment schedule will be clearly delineated on the individual student's enrollment agreement or an attachment thereto. Capstone College will accept the standard payment schedule for a student receiving Federal Financial Aid as long as such student remains in good standing. Out-of-school students seriously delinquent and unresponsive to requests for payment may be turned over to an agency for collection.

FINANCIAL AID

Opportunities and Requirements for Financial Aid

Capstone College does not provide financial assistance to students. However, the school is approved by the Department of Education to participate in the Federal Student Aid-Title IV programs. Loans and grants are available to eligible students. Financial Aid Staff are available to assist student applicants to determine eligibility. If a student obtains a loan to pay for an educational program, the student will have the responsibility to repay the full amount of the loan plus interest, less the amount of any refund. If the student has received federal student financial aid funds, the student is entitled to a refund of the money not paid from federal student financial aid program funds.

If you are eligible for a loan guaranteed by the federal or state government and you default on the loan, both of the following may occur:

- The federal or state government or a loan guarantee agency may take action against you, including applying any income tax refund to which you are entitled to reduce the balance owed on the loan.
- You may not be eligible for any other federal student financial aid at another institution or other government assistance until the loan is repaid.

The school does not participate in State Financial Aid Programs.

WITHDRAWAL

A withdrawal shall be assumed if a student has failed to attend classes for a two-week period. The date of the student's withdrawal shall be deemed the last date of recorded attendance. If a student finds it necessary to withdraw, it is in his/her best interest to notify the School in writing, as soon as possible. Any incomplete coursework will be assigned an "I" for incomplete. An official withdrawal will be processed within the allotted time, a refund calculation will be performed and a refund, if any, will be processed following the school's stated refund policy and provisions. A withdrawal may be effectuated by the student's written notice, or by the student's conduct, including but not necessarily limited to, a student's lack of attendance.

BUYER'S RIGHT TO CANCEL AND REFUND POLICY

The student has a right to cancel the enrollment agreement and obtain a refund of charges paid through attendance at the first-class session, or the seventh day after enrollment, whichever is later. If the student's tuition is sponsored through outside sources or programs, the refund will be sent to the sponsoring agency. If the student has received federal student financial aid funds, the student is entitled to a refund of money not paid from federal student financial aid program funds. For self-paying students, the refund will be sent to the student. A request to cancel or withdraw from the school is not required to be written or in person.

Refunds for Students Who Withdraw On or Before the First Day of Class:

If tuition and fees are collected in advance of the start date of classes and the student does not begin classes or withdraws on the first day of classes, no more than \$100 of the tuition and fees may be retained by the institution.

REFUND CALCULATION:

The school calculates refunds following the State of California, ACCET, and for students receiving Title IV financial aid, an additional refund calculation, following the U.S. Department of Education Return of Title IV Aid requirements, is performed. The school will perform a refund comparison and the policy that is most beneficial to the student will be used to process the refund.

California Refund Policy

The refund policy pursuant to section 94919(c) of the State of California Code states that the institution shall provide a pro-rata refund of nonfederal student financial aid money paid for institutional charges to students who have completed 60 percent or less of the period of attendance. It covers the entire enrollment period. It is calculated as follows:

- (1) The number of days the student attended, or was scheduled to attend, prior to withdrawal is divided by the number of days in the program.
- (2) Except as provided for in section 3, all amounts paid by the student in excess of what is owed as calculated in section 1 shall be refunded to the student within 45 days from the date of completion of, or withdrawal from, the educational program in which the student was enrolled.
- (3) Except for the STRF assessment, a \$100 registration fee, and any unused books, supplies, or equipment returned within 10 business days of the withdrawal, all amounts that the student has paid shall be subject to refund. Books, supplies, or equipment, if unused and in original sealed packaging can be returned for credit of the amount charged by the institution.

Return of Title IV Funds Policy

The Higher Education Amendment of 1998 required schools to implement The Return of Title IV Refund Funds policy when a Title IV funds recipient withdraws from school. A Title IV recipient is defined as a student who has received Title IV funds (including Federal PLUS loan funds) OR has met the conditions that entitle the student to a late disbursement. The Amendment makes clear that Title IV funds are awarded to students with the assumption that he/she will attend school for the entire payment period. (The payment period is equal to one half of the total hours in the program.) If a student receiving assistance completely withdraws from school or ceases to attend classes, the Financial Aid Office is required to calculate the amount of funds the student earned prior to their withdrawal and calculate the amount that was unearned and must be returned to reimburse the appropriate Title IV programs. After the 60% point, the student is deemed to have earned 100% of the Title IV funds.

The withdrawal date is used to determine the point in time that the student withdrew or ceased to attend so that the percentage of the payment period completed can be determined. A student's withdrawal date will vary depending on the type of withdrawal. If a student officially withdraws, the date the institution would use would be the day the student started the withdrawal process or notifies their intent to withdraw whichever is earlier. However, the school may choose to use an earlier last date of attendance at an academically related activity as the student's withdrawal date. If a student does not notify the institution that he/she has withdrawn, the date that the student withdrew would be the date the institution became aware that the student ceased to attend classes. Students can officially withdraw by filling out a withdrawal notice and submitting it to the school Registrar.

The percentage of Title IV aid earned is equal to the percentage of the payment period the student completed. In cases in which funds must be returned, the school will reimburse the Title IV programs in the following order: Unsubsidized Stafford Student Loan, Subsidized Stafford Loan, Parent Loan (PLUS), Pell Grant, SEOG Grant. Students will be billed for any unpaid institutional charges that result from the return of funds to the Title IV programs. In addition, the student may be required to directly repay a portion of the Title IV funds that were received. In such cases, the Financial Aid Office will notify the student the amount that must be repaid, the federal aid program that must be repaid, and the date the repayment is due.

Any repayment outstanding or unpaid will be referred to the U.S. Department of Education for collection and legal disposition. In addition, a financial obligation will be placed on the student's account by the institution, which will prohibit the student from registering in future semesters, receiving academic transcripts, or receiving any additional federal aid funds. In some cases, a student may be eligible to receive a "post-withdrawal" disbursement after the student completely withdraws from school when the amount of aid earned is less than the amount of aid disbursed. In such cases, the Financial Aid Office will notify the student of the "post-withdrawal" disbursement via an award letter. The award letter must be returned to the Financial Aid Office before the date specified on the letter or the "post-withdrawal" disbursement will be cancelled.

Time Frame for the Return of Title IV Program Funds:

1. The college will return any unearned Title IV funds it is responsible for returning within 45 days of the date the college determined the student withdrew and offer any Post-withdrawal disbursement of loan funds within 30 days of that date.
2. The college will disburse any Title IV grant funds a student is due as part of a Post-withdrawal disbursement within 45 days of the date the college determined the student withdrew and disburse any loan funds a student accepts within 180 days of that date.

Earned aid is not related in any way to institutional charges. The school's refund policy and Return of Title IV Funds procedures are independent of one another. A student who withdraws from a course may be required to return unearned aid and still owe the school for the course.

OTHER REFUND PROVISIONS:

i. Rejection of Applicant:

If an applicant is rejected for enrollment by an institution, a full refund of all tuition monies paid will be made to the applicant.

ii. Program Cancellation:

If an institution cancels a program subsequent to a student's enrollment, the institution will refund all monies paid by the student.

iii. Cancellation Prior to the Start of Class or No Show:

If an applicant accepted by the institution cancels prior to the start of scheduled classes or never attends class (no-show), the institution will refund all monies paid, less a maximum application/registration fee of \$100 if such charges are clearly noted in the enrollment agreement as being non-refundable.

iv. Cancellation After the First Day of Class:

Except for the STRF assessment, a \$100 registration fee, and any unused books, supplies, or equipment returned within 10 business days of the withdrawal, all amounts that the student has paid shall be subject to refund. Books, supplies, or equipment, if unused and in original sealed packaging can be returned for credit of the amount charged by the institution.

Reimbursement to Veterans and Eligible Persons for VA Benefits

The Department of Veterans Affairs will pay the school tuition and fees directly to the school and student's expenses directly to the student. The amount and terms are determined by the DVA. For information or for resolution of specific payment problems, the veteran should call the DVA nationwide toll-free number at 888-442-4551.

Tuition Assistance Policies

Capstone College has a policy that returns any unearned tuition assistance (TA) funds on a proportional basis through at least the 60% portion of the period for which the funds were provided to the military Service Branch. The Unearned TA Policy is to refund a prorated share of the tuition up to the 60% of time completed. The calculation is based on the number of class days the student is scheduled to attend divided by the number of class days in the program. For example, the day HVAC class is 30 weeks meeting 5 days per week for a total of 150 class sessions. The 60% point is the 90th class session. The day Electrician class is 36 weeks meeting 5 days per week for a total of 180 class sessions. The 60% point is the 108th class session.

STUDENT TUITION RECOVERY FUND (STRF)

76215. Student Tuition Recovery Fund Disclosures

(a) A qualifying institution shall include the following statement on both its enrollment agreement and school catalog:

“The State of California established the Student Tuition Recovery Fund (STRF) to relieve or mitigate economic loss suffered by a student in an educational program at a qualifying institution, who is or was a California resident while enrolled, or was enrolled in a residency program, if the student enrolled in the institution, prepaid tuition, and suffered an economic loss. Unless relieved of the obligation to do so, you must pay the state-imposed assessment for the STRF, or it must be paid on your behalf, if you are a student in an educational program, who is a California resident, or are enrolled in a residency program, and prepay all or part of your tuition.

You are not eligible for protection from the STRF, and you are not required to pay the STRF assessment, if you are not a California resident, or are not enrolled in a residency program.”

(b) In addition to the statement required under subdivision (a) of this section, a qualifying institution shall include the following statement in its school catalog:

“It is important that you keep copies of your enrollment agreement, financial aid documents, receipts, or any other information that documents the amount paid to the school. Questions regarding the STRF may be directed to the Bureau for Private Postsecondary Education, 2535 Capitol Oaks Drive, Suite 400, Sacramento, CA 95833, (916) 431-6959 or (888) 370-7589.

To be eligible for STRF, you must be a California resident or are enrolled in a residency program, prepaid tuition, paid or deemed to have paid the STRF assessment, and suffered an economic loss as a result of any of the following:

1. The institution, a location of the institution, or an educational program offered by the institution was closed or discontinued, and you did not choose to participate in a teach-out plan approved by the Bureau or did not complete a chosen teach-out plan approved by the Bureau.
2. You were enrolled at an institution or a location of the institution within the 120-day period before the closure of the institution or location of the institution or were enrolled in an educational program within the 120-day period before the program was discontinued.
3. You were enrolled at an institution or a location of the institution more than 120 days before the closure of the institution or location of the institution, in an educational program offered by the institution as to which the Bureau determined there was a significant decline in the quality or value of the program more than 120 days before closure.
4. The institution has been ordered to pay a refund by the Bureau but has failed to do so.
5. The institution has failed to pay or reimburse loan proceeds under a federal student loan program as required by law or has failed to pay or reimburse proceeds received by the institution in excess of tuition and other costs.
6. You have been awarded restitution, a refund, or other monetary award by an arbitrator or court, based on a violation of this chapter by an institution or representative of an institution, but have been unable to collect the award from the institution.
7. You sought legal counsel that resulted in the cancellation of one or more of your student loans and have an invoice for services rendered and evidence of the cancellation of the student loan or loans.

To qualify for STRF reimbursement, the application must be received within four (4) years from the date of the action or event that made the student eligible for recovery from STRF.

A student whose loan is revived by a loan holder or debt collector after a period of non-collection may, at any time, file a written application for recovery from STRF for the debt that would have otherwise been eligible for recovery. If it has been more than four (4) years since the action or event that made the student eligible, the student must have filed a written application for recovery within the original four (4) year period, unless the period has been extended by another act of law.

However, no claim can be paid to any student without a social security number or a taxpayer identification number.” Capstone College does not have a pending petition in bankruptcy, is not operating as a debtor in possession, and has not filed a petition within the preceding five years, nor has had a petition in bankruptcy filed against it within the preceding five years that resulted in reorganization under Chapter 11 of the United States Bankruptcy Code (11 USC Sec 1101 et seq).

STUDENT LOAN OMBUDSMAN

All student loan recipients may access the Student Loan Ombudsman.

By Telephone: 1-877-557-2575

By Fax: 1-606-3483977

By Internet: <https://studentaid.gov/help-center/answers/article/how-to-ontact-ombudsman-group>

By Mail: U.S. Department of Education
Federal Student Aid Information Center
P.O. Box 1854
Monticello, KY 42633

RULES AND REGULATIONS

ALCOHOL AND DRUGS

No drug or alcohol use is permitted in class, on the school grounds, or at Capstone College events. Being under the influence in class or on school grounds will result in your suspension or expulsion.

POLICY ON DRUGS AND ALCOHOL

IT IS OUR POLICY TO OFFER TO OUR STUDENTS A DRUG AND ALCOHOL-FREE ENVIRONMENT. OUR DRUG AWARENESS PROGRAM IS AVAILABLE TO STUDENTS THROUGH THE FINANCIAL AID OFFICE.

OUR REGULATIONS

No alcohol possession, consumption, and/or sale will be tolerated on the school premises and/or at any sponsored function off-campus. Any student believed to be intoxicated on the school premises or at a sponsored event off-campus must leave the premises when the discovery is made. The student must meet the next class day with the Director to face disciplinary action. Such action may include dismissal of the student or disciplinary probation. The finding of the Director will become part of a student's permanent file.

The use of any non-prescription drug that is a "controlled substance" (including, but not limited to: marijuana, cocaine, stimulants, and/or depressants) will not be tolerated on the Capstone College premises or at any school sponsored function. Any student believed to be under the influence and/or in possession of a non-prescribed "controlled substance" will be suspended immediately, pending investigation of the incident.

Should it be determined that a student was under the influence or in possession, and/or involved in the purchase or sale of such while on the premises he will be dismissed. Beyond the control of Capstone College, criminal charges may additionally be filed which could negatively affect one's career goals as well. Should it be determined that the student was not involved in the above activity, he/she will be reinstated, and lost class time will be added to the normal completion time. Students are responsible for the use of drugs prescribed for them.

VOTER REGISTRATION

Recent changes in the Higher Education Act require colleges and universities to make voter registration information available to all enrolled students. Any Capstone College student not currently registered to vote may obtain more information, as well as appropriate materials and forms, from the Registrar. Additionally, Voter Registration Forms are available through the California Secretary of State's website.

SCHOOL SERVICES & GENERAL INFORMATION PLACEMENT ASSISTANCE

Capstone College assists graduates in obtaining employment upon the successful completion of a program including payment of all outstanding tuition and fees. The school's Placement Advisor conducts an active search in the labor market and strives to identify vacancies for which qualified graduates may interview. However, the School does not in any way guarantee employment, and the student must assume final responsibility for securing a job.

HOUSING ASSISTANCE

Capstone College does not provide nor assumes responsibility for student housing and does not maintain any dormitories facilities under its control. No housing assistance is provided through the college.

Pasadena rentals average \$2,923 for a 1-bedroom rental to \$0 for a 2-bedroom rental. The median price of all currently available listings is \$2,987, or roughly \$4 per square foot. (<https://www.renthop.com/average-rent-in/pasadena-ca>)

UPDATE OF PERSONAL INFORMATION

Students must notify the Office of any changes in their personal information on file with the school. This includes changes of name, address, telephone number, employment information and emergency contact person.

CHILDCARE

Capstone College is not equipped or staffed to provide childcare services. Students are not allowed to bring children into the classroom.

ADVISING

Academic advising may be arranged with an instructor or the Director of Education. All financial advising is to be arranged with the Financial Aid Office. The entire Capstone College staff cares about the well-being of all the students and is available individually to talk to students. Psychological, marital, legal, or other advising should be discussed with professionals outside the school. Capstone College cooperates with local law enforcement agencies in providing educational material to students, regarding health risks associated with drugs and alcohol.

PARKING

Students may park in any space in the designated parking areas. Capstone College is not responsible for any theft, vandalism, or damage to your vehicle while parked in the student parking lot or adjacent areas.

BEHAVIOR IN CLASS

Loudness, rudeness, or disruption while a class is in progress will result in your being suspended or expelled. You are free to stand up, stretch, or move about when necessary, but not to talk to, or otherwise interfere with, the other students in the room.

SMOKING

No smoking is allowed in the classrooms, offices, or in the lunchroom. Smoking is allowed outside and in designated areas only.

STUDENT RESPONSIBILITY POLICY

Each student is held responsible for compliance with the regulations contained in this catalog and other policies and/or regulations as they are published from time to time. Failure to read these regulations does not relieve the student from liability.

CONSTITUTION DAY

Each year on September 17th, Capstone College celebrates Constitution Day commemorating the signing of the United States Constitution. The school distributes educational materials to all students. Constitution Day commemorates the formation and signing of the U.S. Constitution by thirty-nine brave men on September 17, 1787, recognizing all who are born in the U.S. or who by naturalization have become citizens.

DRESS CODE

You must always wear closed toe shoes. Students must wear pants and shirts appropriate for a construction site. No tank tops, shorts, or cut off sleeve shirts are allowed.

COPYRIGHT INFRINGEMENT

The school has strict policies for students on copyright infringement such as textbooks, curriculum materials, and restricted and authorized items on the internet. Students' use of school resources is limited to supervised use of copy machines and computers. Students may face civil/criminal liability for such copyright infringement and/or unauthorized use/distribution of materials.

EMERGENCY PROCEDURES

An emergency should be reported to the office as soon as it is reasonably possible. No student is to assist in a medical emergency unless they have training that will allow for a proper response. The obvious exception to this is when life-threatening conditions exist and then the action of a prudent person should be exercised. A very high degree of personal liability exists when proper medical emergency procedures are not followed. An Emergency Action Plan is maintained addressing other types of emergencies including. Consult with the administration for more information.

In the case of a fire, all students are to evacuate the building immediately. If an earthquake should occur, it may be wise to take shelter under a desk or in a doorway until all movement has ceased and it appears to be safe to exit the building. Each student is to complete a Confidential Questionnaire indicating a name and telephone number to contact in the event of illness or injury. Any student with a chronic, health related condition should so note on that form. All information received is maintained in the strictest confidence.

BUREAU DISCLOSURES STUDENT RIGHTS

Any questions a student may have regarding this catalog that have not been satisfactorily answered by the institution may be directed to the **Bureau for Private Postsecondary Education at 1747 N. Market St. Suite 225, Sacramento, CA 95834, www.bppe.ca.gov, toll-free telephone number (888) 370-7589 or by fax (916) 263-1897.**

A student or any member of the public may file a complaint about this institution with the Bureau for Private Postsecondary Education by calling (888) 370-7589 toll-free or by completing a complaint form, which can be obtained on the bureau's internet web site www.bppe.ca.gov.

As a prospective student, you are encouraged to review this catalog prior to signing an enrollment agreement. You are also encouraged to review the School Performance Fact Sheet, which must be provided to you prior to signing an enrollment agreement.

The school does not have a pending petition in bankruptcy, is not operating as a debtor in possession, has not filed a petition within the preceding five years, or has had a petition in bankruptcy filed against it within the preceding five years that resulted in reorganization under Chapter 11 of the United States Bankruptcy Code (11 U.S.C. Sec. 1101 et seq.).

STUDENT RECORDS AND RIGHT OF PRIVACY

The Federal Right of Privacy enables all students to review their academic records, including grades, attendance, and counseling reports. Student records are confidential and only such agencies or individuals authorized by law are allowed access without written permission of the student. State law requires the school to maintain these records for a minimum of five years. In addition, transcripts are retained permanently. Students may request a review of their records by writing to the school registrar. All such reviews will be scheduled during regular school hours under appropriate supervision.

DISCLOSURE OF EDUCATION RECORDS-FERPA

The school guarantees its students the right to access their records.

Pursuant to the Federal Family Educational Rights and Privacy Act of 1974, the California Education Code as amended in 1976, and the School Policies, the disclosure of student records applies in the following cases: if the student asks in person; upon their written authorization, or as required by law.

Education records are defined as files, materials and documents which contain information directly related to a student and are maintained by the institution.

Students may examine their academic or financial records upon requesting a scheduled appointment to do so. Students are not entitled to inspect the financial records of their parents.

Written consent is required before education records will be disclosed to third parties except for accrediting commissions or government agencies so authorized by law.

GRIEVANCE/COMPLAINT PROCEDURE

Persons seeking to resolve problems or complaints should first contact the instructor in charge. Requests for further action may be made to the school Director, Lou Rodriguez. In addition, the student may file a complaint with the following agencies to seek conflict resolution.

A student may file a complaint about this institution with the Bureau for Private Postsecondary Education at any time by contacting them directly below:

Bureau for Private Postsecondary Education
1747 N. Market St. Suite 225 Sacramento, CA 95834
(916) 574-8900

The Accrediting Council on Continuing Education and Training (ACCET) is the institution's accrediting agency and is a contact for conflict resolution. The agency's current address, phone number and website are listed below:

Accrediting Council for Continuing Education and Training (ACCET)
1722 N St., NW Washington, DC 20036

Tel. (202) 955-1113 Website: <https://accet.org/about-us/contact-us>

OPERATING SCHEDULE

SCHOOL DAYS & CLASS HOURS

Hours of operation: Monday through Thursday, from 7:30 a.m. to 10:00 p.m.

Friday, from 7:30 a.m. to 4:30 p.m.

Day class schedule: 7:30 a.m. - 12:30 p.m. **Night class schedule:** 6:00 p.m. - 10:00 p.m.

The schedule of class start dates varies by program. Courses are scheduled on a Modular system.

HOLIDAYS

The following holidays are observed in 2024-2025:

NEW YEAR'S DAY

MARTIN LUTHER KING JR. DAY

PRESIDENT'S DAY

MEMORIAL DAY

INDEPENDENCE DAY

LABOR DAY

THANKSGIVING DAY and Friday

CHRISTMAS and NEW YEAR Break (See below)

Capstone College will be closed for Christmas and New Year break from December 21, 2024–January 5, 2025. Classes will resume January 6, 2025. Special consideration is given to holidays of all religious beliefs. Please consult the Director for details. The Administration may schedule special holidays or partial days.

HVAC TECHNICIAN

CIP CODE: 47.0201 - O-Net Number: 49-9021.02

Program Description

The HVAC Technician Program is designed to provide students with the knowledge, skills, work habits, and practical applications of HVAC systems required for entry-level employment in today's HVAC industry. The HVAC Technician program prepares students to efficiently perform and specialize in the installation, maintenance, and service of HVAC systems.

Program Mission and Objectives

The mission and objective of the HVAC Technician Program is to provide students with training in heating, ventilation, and air conditioning. Instruction includes safety procedures for the use of tools and testing equipment, basic electricity, electrical components, theory and practical applications of heating, ventilation, air-conditioning, sheet metal installation, schematics, brazing and soldering, maintenance and service, troubleshooting, repair and installation of HVAC systems. Students will receive training on the applications of HVAC systems in a hands-on laboratory environment that remains current with industry standards, providing students the ability to effectively perform entry-level skills required in the labor market. In addition, students will be prepared to take the EPA 608 certification examination.

Occupational Objectives

Graduates of the HVAC Technician Program will be able to perform installation, service, repair of heating, air conditioning systems in residences or light commercial establishments. Graduates can obtain entry-level positions as HVAC Technician, HVAC Service Technician, HVAC Technician. HVAC Service Technician, HVAC Installers, HVAC Apprentices, HVAC Helpers, Sheet Metal Workers, Building Maintenance, and other related positions. Standard Occupational Classifications for these job titles and other associated titled descriptions can be found in the U.S. Department of Labor O*Net S.O.C. #49-9021.00

Employment of heating, air conditioning, and refrigeration mechanics and installers is projected to grow 6 percent from 2022 to 2032, faster than the average for all occupations. About 37,700 openings for heating, air conditioning, and refrigeration mechanics and installers are projected each year, on average, over the decade. Many of those openings are expected to result from the need to replace workers who transfer to different occupations or exit the labor force, such as to retire. (<https://www.bls.gov/ooh/installation-maintenance-and-repair/heating-air-conditioning-and-refrigeration-mechanics-and-installers.htm>)

HVAC technicians ensure that heating and air conditioning systems work properly to control the temperature, humidity, and overall air quality in buildings. Some HVAC technicians specialize in one or more aspects of HVAC, such as radiant heating systems, testing and balancing, or commercial refrigeration in establishments such as grocery stores, hotels, and restaurants. In addition, some technicians focus on installing HVAC systems while others primarily repair and maintain them. There is a Bright Outlook for HVAC Technicians in today's job market according to O*Net Online. Bright Outlook occupations are expected to grow rapidly in the next several years and will have large numbers of job openings. In California, according to O*Net Online the projected employment for HVAC Technicians in 2030 will be 39,600 representing a growth of 14% with 3,980 annual earnings between 2020-2030.

Educational Requirements

The HVAC Technician Program consists of a total of 750 clock hours and 55.75 units. The program is divided into 8 course modules. The program is 30 weeks during the day or 48 weeks during the evening. Students must complete all modules starting with any module and continuing until all modules are successfully completed. All theory and laboratory sessions are held at the school's campus located at 1200 N. Fair Oaks Ave., Pasadena, CA. Students who complete the program satisfactorily are awarded a Certificate as HVAC Technician.

Course Outline and Course Description

Course No	Course(s) Title	Lecture Hours	Lab Hours	Total Hours	Quarter Credit Units
Level I	HVAC Trade Orientation, Human Relations, Safety First Aid, Construction Math and Electrical Trouble Shooting	85	15	100	7.25
Level II	HVAC Air Conditioning and Heating Fundamentals	45	55	100	7.25
Level III	HVAC Tools, Materials and Supplies	45	55	100	7.25
Level IV	HVAC EPA Refrigerant Certification, HVAC Systems Labs, Inverter Mini Splits and an Introduction to Variable Refrigerant Flow (VRF) Systems	50	50	100	7.5
Level V	HVAC Theory	50	50	100	7.5
Level VI	HVAC Electrical, HVAC Schematics, National and Local Codes	50	50	100	7.5
Level VII	Brazing & Soldering, HVAC Sheet Metal Installation	30	70	100	6.5
Level VIII	Refrigerants, & Charging Techniques	25	25	50	3.75
				750	55.75

Level I:

HVAC Trade Orientation

Provides students with an introduction to the industry and the common aspects of HVAC technology. Students learn the occupational job titles, job outlook, job descriptions, duties and tasks, and work environment within the HVAC industry as well as career opportunities available to graduates.

Human Relations

Introduces students to development of customer service skills and positive communication techniques. Emphasis is on providing students with effective skills for developing professional interpersonal relationships and service attitudes.

Safety and First Aid

Examines OSHA regulations, CAL-OSHA and general industry standards. Selected interpretation of the standards pertaining to HVAC industry is accessed, overviewed, discussed, and compiled into student resource materials.

Construction Math

Provides students with the ability to thoroughly understand formulas, equations, areas, volume and other algebra and geometry math fundamentals.

Electrical Troubleshooting

It discusses the differences between diagrams, and process of troubleshooting electrical problems.

Level II

HVAC- Air Conditioning and Heating Fundamentals

Introduces students to the basic principles and applications of HVAC systems. Students learn the history and development of early refrigeration and air-conditioning. Students gain understanding refrigeration theory by learning temperature and pressure relationships, and principles of heat transfer. Students also learn the principles of heating systems utilized in industry. This course provides students with a complete review of heat transfer principles and an introduction to heating system configuration, design, and operation. Students learn to interpret control circuit diagrams and to identify and use the service instruments needed to troubleshoot heating systems.

Level III

HVAC Tools, Materials, and Supplies

Study of the types and correct use of hand tools, test equipment, and supplies that are used in performing HVAC installation, service and repair. Students will build and equip their own personal tool kits with commonly used tools. Begin refrigeration theory by learning temperature and pressure relationships and principles of heat transfer.

Level IV

EPA Refrigerant Certification

Prepares students for the certification test and contains all the information required to successfully complete the Section 608 Refrigerant Certification Test.

HVAC Systems Lab

Provides students with a common understanding of the types of HVAC systems and the selection process for determining an enclosed environment's heating/cooling needs.

Inverted Mini Splits and VRF

Discusses mini splits, evacuating mini split systems, checking refrigerant charge in a mini split, recovering and pumping down a mini split system, mini split user controls, mini split heat pump types, error codes and common problems.

Level V

HVAC Theory

Provides students with an increasing understanding of HVAC theory in relationship to the five thermal laws of refrigeration and the operation of the refrigerating cycle.

Level VI

HVAC Electrical

Study of the principles of electricity as required by the HVAC industry, including the proper use of test equipment, electrical circuits, and component theory and operation. Students learn the installation and servicing techniques for wiring and connecting circuitry for HVAC systems and the various electrical components and wiring methods needed to wire HVAC equipment and meet national and local codes.

HVAC Schematics

A basic study of the essential elements of HVAC schematics used in industry. Students learn the ability to read and understand HVAC schematics and drawings. Several types of drawings and diagrams will be examined during this course; including Block, Pictorial, One-line, Wiring, Terminal, and Schematic. Individual component symbols will be presented along with an explanation of their function and purpose in the circuit. To facilitate learning and enable students to relate diagrams to actual equipment, students will see pictorial examples or photos of the components along with the description.

HVAC National and Local Codes

Provides students with a thorough knowledge of the national and local codes associated with the installation and service of HVAC equipment.

Level VII

HVAC Brazing and Soldering

Provides students with practical skill sets in brazing and soldering techniques to safely join metals and piping materials with accuracy and efficiency.

HVAC Sheet Metal Installation

Provides students with a practical knowledge of how to install or change existing ductwork for an efficient basic air distribution system. This course will focus on proper installation techniques of sheet metal related materials and supplies used in the HVAC industry. Also, students will learn the principles of venting, selecting and installing vent systems for gas-fired heating equipment.

Level VIII

HVAC Refrigerants and Charging Techniques

Provides students with a thorough knowledge of modern refrigerants, their use, and application in HVAC industry. This course will also expand the student's understanding of refrigerant usage and handling techniques to include proper refrigerant leveling methods used in a HVAC system after installation of parts to ensure proper system start-up and efficient refrigerant flow through the system.

HVAC Technician Program Equipment and Supplies

Equipment	Tool and Supplies
1. Residential Split System	1. Brazing tanks and torch
2. Outdoor Condenser Units	2. Hammers
3. Gas Fired Furnace	3. Pipe Cutters
4. Refrigerators	4. Tube Benders
5. Portable Air Conditioning	5. Needle Nose Pliers
6. Heat Pump	6. Philip Screwdrivers
7. Evaporators Coil	7. Vacuum Pump
8. Water source Air handler	8. Recovery Cylinders
9. Walk in freezer model	9. Hand Seamers
10. Package Units	10. 12" Adjustable Wrench
11. Compressor test station	11. PVC Cutter
12. Mini Split Systems	12. Micron Gauge
13. 90% Forced Air Furnaces	13. Manometers
14. 80% Forced Air Furnaces	14. Multi-meters
15. Condensate Pumps	15. Digital Manifold
16. Beverage Cooler	16. Analog Manifold
17. Wall Furnace	17. Digital refrigerant scale
18. ECM Motors	18. Reciprocating saw
19. PSC motors	19. Swaging Tool
20. Three Phase Compressors	20. First Aid Kit
21. Belt Driven Motors	21. Sheet Metal
22. Reversing Valves	22. Copper Fittings
23. Economizer	23. Electrical Wire, lead
24. Control Zone System	24. Extension ladder
25. Spiral Duct System.	25. Nuts, Bolts, Screw
26. Residential Structure for Lab	26. Oxygen/ Acetylene/Gasses and Refrigerants

ELECTRICIAN

CIP CODE: 46.0302 – O-Net Number: 47-2111.00

Program Description

The Electrician Program is designed to provide graduates with the knowledge and skills necessary to obtain entry level employment in Residential, Commercial, or Industrial settings. Course work includes proper safety, trade mathematics, theory, blueprint reading, and the planning, layout, and installation of devices according to the National Electrical Code. The coursework also includes introductions to motor control fundamentals and solar photovoltaic systems and their components. The Electrical Technician program is designed to train students to efficiently perform and specialize in the installation, servicing, and maintenance of systems within the commercial, industrial, and residential electrical industry.

Program Mission and Objectives

The mission and objective of the Electrician Program is to provide students with the knowledge and technical ability to install and service electrical systems across residential, commercial, and industrial environments while abiding by the National Electrical Code. Instruction includes safety, trade mathematics, electrical theory, electrical codes, electrical blueprints, and the planning, layout and installation of electrical wiring, equipment, or fixtures, based on job specifications according to National Electrical Codes. Students will receive the training for practical applications on the basic electrical wiring and installation according to safety and electrical codes in a real-world hands-on laboratory environment using equipment that is current with industry to be able to efficiently perform the entry-level skills required in the Electrician labor market.

Occupational Objectives

Graduates of the Electrician Program will be prepared with the necessary skills to work as entry-level electrician performing duties such as basic electrical wiring, connecting circuits and breakers, and install, maintain, and repair electrical wiring, equipment, and fixtures of commercial, industrial and residential electrical installations in accordance with the safety and National Electric Codes. Graduates can obtain entry-level positions as an Electrician, Electrician Trainee, Electrical Apprentice, Electrician's Helper, Commercial Electrician Industrial Electrician, and Building Maintenance workers and other related positions according to O*Net Online.

There is a growing demand for electricians in today's job market. According to the US Bureau of Labor Statistics, employment of electricians is projected to grow 6 % from 2022 to 2032, faster than the average for all occupations. About 73,500 openings for electricians are projected each year on average, over the decade. Many of those openings are expected to result from the need to replace workers who transfer to different occupations or exit the labor force, such as to retire. Every building has electricity. Electricians are needed to install and replace these power systems. Alternative power generation, such as solar and wind, is a growing field that should require more electricians for installation. Electricians will continue to be needed to link these alternative systems to homes and power grids over the projections decade. However, employment growth stemming from these alternative sources may depend on government provisions—such as credits, net metering, and tax incentives—that spur consumer demand by lowering installation costs. <https://www.bls.gov/ooh/construction-and-extraction/electricians.htm>.

There is a Bright Outlook for Electricians in today's job market according to O*Net Online. Bright Outlook occupations are expected to grow rapidly in the next several years and will have large numbers of job openings. In California, according to O*Net Online the projected employment for electricians in 2030 will be 83,100 representing a growth of 18% with 9,140, annual earnings between 2020-2030.

Educational Requirements

The Electrician Program consists of a total of 792 clock hours and 66.4 units. The program is divided into 6 course modules. The program is 36 weeks during the day or 52 weeks during the evening. Students must complete all modules starting with any module and continuing until all modules are successfully completed. All theory and laboratory sessions are held at the school's location at 1200 N. Fair Oaks Ave., Pasadena, CA. Students who complete the program satisfactorily and graduate are awarded a Certificate as Electrician.

Course Outline and Course Description

Course No	Course(s) Title	Lecture Hours	Lab Hours	Total Hours	Quarter Credit Units
ET 101	Electrician Training 1	88	44	132	11.0
ET 102	Electrician Training 2	66	66	132	9.9
ET 103	Electrician Training 3	66	66	132	9.9
ET 104	Electrician Training 4	121	11	132	12.6
ET 105	Electrician Training 5	99	33	132	11.55
ET 106	Electrician Training 6	99	33	132	11.55
				792	66.5

ET 101 Electrician Training 1

This course provides an orientation to the electrical trade and introduces students to basic construction skills including proper safety, proper use of hand tools and power tools, and rigging. Students will receive instruction on handling construction materials, basic skills in drawing and reading blueprints, and working in confined spaces. In addition, students review basic mathematics, communication skills, and job readiness skills. The course provides students with electrical theory, introduction to the National Electric Code, and introduction to electrical circuits. Students will apply all classroom theory in a hands-on laboratory setting under the supervision of the instructor.

ET 102 Electrician Training 2

This course introduces students to fundamental electrical theories, knowledge and skills including grounding, conduit bending, boxes and fittings, and conductor and cable installations. The course provides students with basic electrical drawings, residential electrical services, electrical test equipment, alternating current, and motor theory and applications. Students will apply all classroom theory in a hands-on laboratory setting under the supervision of the instructor.

ET 103 Electrician Training 3

Students will be instructed in electrical lighting, conduit bending, pull and junction boxes, conductor installation, cable tray, conductor terminations and splices, grounding and bonding, and circuit breakers and fuses. The course provides students with electrical control systems and fundamental concepts. Students will apply all classroom theory in a hands-on laboratory setting under the supervision of the instructor.

ET 104 Electrician Training 4

Students will be instructed in electrical load calculations including branch and feeder circuits, conductor selection and calculations, practical applications of lighting, hazardous locations, and overcurrent protection. The course provides students with electrical distribution equipment, transformers, and commercial electrical services. Students will apply all classroom theory in a hands-on laboratory setting under the supervision of the instructor.

ET 105 Electrician Training 5

Students will be instructed in motor calculations, motor controls, voice, data and video, electrical load calculations including feeders and services, health care facilities, standby and emergency services, basic electronic theory, and fire alarm systems. The course provides students with HVAC electrical controls. Students will apply all classroom theory in a hands-on laboratory setting under the supervision of the instructor.

ET 106 Electrician Training 6

Students will be instructed in specialty transformers, advance controls, motor operation and maintenance, medium voltage termination, special locations, and fundamentals of crew leadership. This course introduces students to the basic concepts of Solar Photovoltaic (PV) systems and their components in addition to general sizing and electrical/mechanical design requirements for installation of an efficient PV system. Students will apply all classroom theory in a hands-on laboratory setting under the supervision of the instructor.

Electrician Program Equipment and Supplies

Equipment	Tools and Supplies
1. Meter enclosures	1. Tool pouches with basic electricians' hand tools.
2. Two-pole circuit breakers	2. Conduit hand benders.
3. Three-pole circuit breakers	3. Fish tapes.
4. 15 A duplex receptacles	4. Drill motors.
5. 20 A duplex receptacles	5. Clamp-on ammeter.
6. Motor control boards	6. Tripod pipe vise.
7. Single-phase motors	7. No-Contact voltage tester.
8. Three-phase motors	8. ½" EMT.
9. Boards with nine outlet boxes	9. ¾" EMT.
10. Workstations	10. 1" EMT.
11. Ladders	11. ½" Flexible metallic conduit.
12. 3 wire, 120/208 200 A Main Panel (x1)	12. 12 AWG THHN wire.
13. 3 wire, 120/208 125 A Sub Panel (x2)	13. 14 AWG THHN wire.
14. 4 wire, 120/208 60 A Sub Panel (x16)	14. Type MC cable 12/2 w/ ground.
15. Dry Type Transformer	15. Type MC cable 12/3 w/ ground.
16. Residential structure for lab	16. Type NM cable 12/2 w/ ground.
17. Commercial structure for lab	17. Type NM cable 14/3 w/ ground.
18. Motor starters	18. Various size plastic outlet boxes.
19. Start-stop push buttons	19. Various size metal outlet boxes.
20. Fire alarm control panel	20. Strapping material for Type MC cable.
21. Safety disconnect switch	21. Type NM staples.
22. Single pole switch	22. EMT Connectors and Couplings.

PLUMBING TECHNICIAN

CIP CODE: 46.0503 O*NET Number: 47-2152.02

Program Description

The Plumbing Technician Program is designed to prepare graduates with the technical skills and practical hands-on training to obtain entry-level employment in today's residential and commercial plumbing industry. Course topics include plumbing theory and fundamentals, proper safety issues and practices, basic mathematical skills, and use of power and hand tools, equipment, materials and joining methods used in the trade. Students will be introduced to the importance of plumbing drawings, reading of blueprints, layout, estimating, and soldering and welding. Training will include the design and installation of water and gas distribution systems, selection and requirements of various types of plumbing fixtures, and repair of water supplies and wastewater systems. The primary emphasis is on understanding and interpretation of the International Plumbing Code as well as applicable local codes and standards.

Program Mission and Objectives

The mission and objective of the Plumbing Technician Program is to provide students with the education and technical skills training to perform the installation, servicing and maintenance of plumbing systems in residential, and commercial environments in accordance with the International Plumbing Code and applicable local codes and standards. Instruction includes basic safety procedures, use of hand and power tools, use of testing equipment, trade mathematics, plumbing theory, reading of blueprints, and the planning, layout and installation of different types of pipe and fittings as well as the fixtures and water systems in a real-world hands-on laboratory environment using tools and equipment that is current with industry to be able to efficiently perform the entry-level practical skills required in the plumbing labor market.

Occupational Objectives

Graduates of the Plumbing Technician Program will be prepared with the necessary skills to work as an entry-level Plumbers in the residential and commercial plumbing industry. They will perform duties such as the planning, layout, installation and repair of different types of pipe and fittings as well as the fixtures and water systems. In addition, entry-level Plumbers install plumbing fixtures such as bathtubs, and toilets, and appliances such as dishwashers and water heaters in residential, and commercial environments in accordance with the International Plumbing Code and applicable local codes and standards.

According to O*NET ONLINE, graduates of the Plumbing Technician program can obtain entry-level positions as a Plumber, Plumbing Apprentice, Plumbing Technician, Plumbing Installer, Residential Plumber, Service Plumber, and Drain Technician and other related positions.

There is a growing demand for Plumbers in today's job market. Because the current plumbing workforce is nearing retirement age, the plumbing industry is facing a shortage of working plumbers. In addition, aging buildings that require maintenance or replacement of their plumbing facilities are expected to keep demand strong far into the future.

The US bureau of labor Statistics (BLS) reports that there will be 48,600 job openings for Plumbers, Pipefitters and Steamfitters every year from 2021 to 2031. In addition, the BLS also reports the median annual wage was \$59,880 for plumbers, pipefitters, and steamfitters in the country. The BLS also notes that California ranks first in the United States with the highest employment rate of plumbers, pipefitters, and steamfitters.

California employs 44,000 plumbers, pipefitters, and steamfitters plumbing professionals, the most of any state in the nation according to O*NET ONLINE (US Department of Labor). According to O*NET ONLINE Plumbers in California earn on average \$29.99 per hour, or \$62, 390 per year, the highest paying state. Employment projections from O*NET ONLINE indicate the number of plumbers, pipefitters, and steamfitters in California is expected to grow to 49,900, an increase of 13% between 2020-2030. <https://www.onetonline.org/link/summary/47-2152.00>

O*NET ONLINE indicates that within the Los Angeles-Long Beach-Anaheim Metropolitan Districts, there are currently 10,280 plumbers, pipefitters, and steamfitters employed. The Plumbing job market is expected to grow to 11,570, an increase of 12.5 % between 2018 and 2028.

The construction industry is facing a labor shortage and will need to attract nearly 650,000 additional workers on top of the normal pace of hiring in 2022 to meet the demand for labor, according to a model developed by Associated Builders and Contractors (ABC). Plus, the number of construction workers ages 25-54 years old has declined 8% over

the past 10 years, while the number of older workers leaving the workforce has soared, according to ABC. Further, the Infrastructure Investment and Jobs Act and stimulus from COVID-19 relief will pump billions in new spending into our nation’s most critical infrastructure, and qualified craft professionals are essential to efficiently modernize buildings roads, bridges, energy production and other projects across the country. The above factors indicate the long-term career outlook for new Plumbing professionals is very strong, especially in the State of California.

Educational Requirements

The Plumbing Program consists of a total of 750 clock hours and 58.75 units. The program is divided into 8 course modules. The program is 30 weeks during the day or 48 weeks during the evening. Students must complete all modules starting with any module and continuing until all modules are successfully completed. All theory and laboratory sessions are held at the school’s location at 1200 N. Fair Oaks Ave., Pasadena, CA. Students who complete the program satisfactorily and graduate are awarded a Certificate as a Plumbing Technician.

Course Outline and Course Description

Course No	Course(s) Title	Lecture Hours	Lab Hours	Total Hours	Quarter Credit Units
PLU 101	Plumbing Technician	35	15	50	4.25
PLU 102	Plumbing Technician	70	30	100	8.5
PLU 103	Plumbing Technician	60	40	100	8.0
PLU 104	Plumbing Technician	50	50	100	7.5
PLU 105	Plumbing Technician	50	50	100	7.5
PLU 106	Plumbing Technician	50	50	100	7.5
PLU 107	Plumbing Technician	60	40	100	8.0
PLU 108	Plumbing Technician	50	50	100	7.5
				750	58.75

PLU 101 Plumbing Technician

This course provides an orientation to the Plumbing trade and introduces students to general safety rules and concepts and Personal Protective Equipment. Students learn safe practices when using hand and power tools including basic OSHA regulations. In addition, students review communication skills, Plumbing career opportunities, and job readiness skills. Students will apply classroom theory in a hands-on laboratory setting under the supervision of the instructor.

PLU 103 Plumbing Technician

This course introduces students to develop basic skills needed to read drawings and produce piping sketches in the trade. The course provides students with the skills to interpret the plumbing code and its application in the field. Students learn the fundamental skills of soldering, brazing, welding and cutting used in the trade. Students are introduced to evacuating and locating and protecting utilities lines. Students will apply classroom theory in a hands-on laboratory setting under the supervision of the instructor.

PLU 102 Plumbing Technician

The course provides students with the proper use of plumbing hand and power tools and leveling instruments utilized in the trade. Students will learn the basic mathematical concepts and skills used in the Plumbing trade. Students will learn the fundamentals of hydraulics and pneumatics. Students will apply all classroom theory in a hands-on laboratory setting under the supervision of the instructor.

PLU 104 Plumbing Technician

This course introduces students to the fundamentals of water supply and distribution, sanitary drainage, Indirect/special waste, vents, and traps, interceptors, and separators. Students will learn skills in identifying plumbing fixtures, faucets and fixture fittings, water heaters, traps, interceptors, and separators. Students will learn to identify and work with various types of piping materials and fittings used in residential and commercial plumbing systems. Students will apply classroom theory in a hands-on laboratory setting under the supervision of the instructor.

PLU 105 Plumbing Technician

Students will learn to identify and work with various types of valves and meters used in residential and commercial plumbing systems. Students will be instructed in the various types of water heaters in the trade. Students will learn the principles for designing DWV and water supply systems that will provide long and satisfactory service. Students will be instructed on how to determine the size of water supply piping and installation. Students will apply classroom theory in a hands-on laboratory setting under the supervision of the instructor.

PLU 106 Plumbing Technician

Students will be instructed in the pipe and fitting Installation, sizing and measuring of various types of pipes including plastic, copper, galvanized, black-iron and cast iron. Students will learn how to install various types of water supply piping and learn how to support, test, and inspect piping systems. The course provides students with instruction on how to install the basic types of water heaters, fixtures, faucets, and appliances. Students will apply classroom theory in a hands-on laboratory setting under the supervision of the instructor.

PLU 107 Plumbing Technician

In this course, students will learn the basic operation of private septic systems. Students will learn the basics of storm water drainage, special piping, and storage systems in both residential and commercial applications. Students will receive instruction on the design and installation of storm drainage systems as well as HVAC system basic components and the Plumber's responsibility in installing HVAC systems. Students will learn the purpose of Green Construction, reducing energy and water consumption as well as learn appropriate Green Certification codes. Students will apply classroom theory in a hands-on laboratory setting under the supervision of the instructor.

PLU 108 Plumbing Technician

Students will learn to troubleshoot and repair DWV systems. Students will be instructed in troubleshooting, recognizing, and repairing water supply systems including residential and commercial faucets and valves, toilets, water supply piping, and water heaters. In this course students will be instructed in the process of residential remodeling. Students will receive instruction in the sequence and management of residential remodeling jobs including design, layout of replacing faucets and fixtures, roughed-in bathroom, relocating fixtures and adding new fixtures. Students will learn job organization steps including understanding and sequencing the job, preparing lists, supplies, and requirements for tools and equipment. Students will apply classroom theory in a hands-on laboratory setting under the supervision of the instructor.

Plumbing Technician Equipment, Tools and Supplies

Equipment	Tools and Supplies
Snake Machines	Safety Glasses and Leader Work Gloves
Rigid Tri stands	Screwdriver Kits, Flat Head, Phillips various sizes
Plumbing benches with pipe vices	Tool Bags and Plumbers Buckets
Rigid power threading Machines	Clamp-on Meter-volts, ohms, amps, temperature, capacitance, and DC micro amps
Handheld power threader	Friction Lighter
Welding, Soldering and cutting stations.	Rigid Tubing Cutters (1/2,3/4, and 1 inch)
Acetylene and oxygen storage tanks	Basin Wrenches
Torch Heads	Allen Wrench Sets
Pro Press Equipment	12-inch Hacksaws
Hand Auger	Torque Wrench
Torch Heads	Magnetic Torpedo Level
Inspection Camera (Borescope)	Retractable Utility Knife
Water-cooled AC systems	Wallboard Saw
Gas Furnaces	25 ft. Measuring Tape (inch/ foot/fractional)
Gas Water Heaters	Crescent Wrenches
Plumbing fixtures Workstations (toilets, faucet sinks, bathtubs, kitchen appliances, Garbage Disposals))	Plumbing pipe materials and connections: Cooper, Galvanized, Cast Iron, Black Pipe, PVC, ABS, and PEX various sizes.
Rigid Coreless Press Tools	Offset Pipe Wrenches
Various Ladders	Punch set (pin punch, center punch, cold chisel)
Milwaukee Cordless PROPEX Expansion Kit	Offset Key Wrench
	Architectural scale ruler, Tub Drain Wrench, Plumber's Torch, Cordless Sawzall
	Chanel Locks, Thread Seating Tape, Flashlights
	16ozz. Reip Claw Hammer

TUITION AND FEES

HVAC TECHNICIAN		
Tuition:	\$ 17,850.00	(Includes books & supplies, EPA Certification)
Registration Fee:	\$ 100.00	Non-refundable
STRF	\$ 0	STRF is charged by the State of California
TOTAL COST	\$ 17,950.00	Does not include tools.
<i>Fees do not include tools.</i>		

ELECTRICIAN		
Tuition:	\$ 19,150.00	(Includes books & supplies)
Registration Fee:	\$ 100.00	Non-refundable
STRF	\$ 0	STRF is charged by the State of California
TOTAL COST	\$ 19,250.00	Does not include tools.
<i>Fees do not include tools.</i>		

PLUMBING TECHNICIAN		
Tuition:	\$ 17,850.00	(Includes books & supplies)
Registration Fee:	\$ 100.00	Non-refundable
STRF	\$ 0	STRF is charged by the State of California
TOTAL COST	\$ 17,950.00	Does not include tools.
<i>Fees do not include tools.</i>		

Program Start and End Dates for July 2024 thru December 2024

HVAC Technician (Day)	HVAC Technician (Evening)	Electrician (Day)	Electrician (Evening)
07/29/24 - 03/14/25 08/26/24 - 04/11/25 09/24/24 - 05/09/25 10/22/24 - 06/09/25 11/19/24 - 07/08/25 12/05/24 - 07/22/25	08/06/24 - 07/22/25 09/19/24 - 09/04/25 11/04/24 - 10/20/25 12/18/24 - 12/03/25	07/10/24 - 03/19/25 08/16/24 - 04/16/25 09/25/24 - 05/23/25 11/01/24 - 07/02/25 12/12/24 - 08/11/25	08/12/24 - 08/13/25 10/09/24 - 10/13/25 12/09/24 - 12/10/25

Plumbing Technician (Evening)
07/30/24 - 07/15/25 09/12/24 - 08/27/25 10/28/24 - 10/13/25 11/19/24 - 11/04/25