

PROGRAM DESCRIPTION

Electrical Technology

This program is offered at **Ontario Campus**.

Program Description

SJVC's Electrical Technology program provides a framework of electrical knowledge and skills that can be adapted in the electrical trade industry. The program prepares students for employment in numerous electrical and electrically related trades. Upon completion of the Electrical Technology program, the student will be able to install, maintain, and repair electrical equipment and systems in a safe and workmanlike manner. This program also meets the standards set forth by the California Department of Industrial Relations towards the current California Electrician Certification Program. Once a student has completed the program, the student is allowed to sit for the California General Electrician's Certification Exam.



Program Student Learning Outcomes

Upon completion of this program, the graduate will be able to:

1. Discuss theories of electrical circuitry and relate these concepts to practical applications
2. Apply proper procedures for the installation, operation, maintenance and repair of residential, commercial, and light industrial wiring, electrical equipment and systems
3. Demonstrate proper usage of the basic tools of the trade
4. Demonstrate requisite mastery to successfully pass the California Electrician Certification Exam
5. Create effective reports and documents, electronically and in writing
6. Apply advanced electrical concepts and critical thinking skills to interpret and create blueprint drawings for residential, commercial and light industrial facilities
7. Relate and apply concepts of communication, reasoning, critical analysis, ethical behavior and appropriate interpersonal interaction to situations in his or her career and personal life
8. Demonstrate the social skills, professional appearance, attitudes and behavior that employers expect of all SJVC graduates
9. Adhere to national, state, and local safety practices used by technicians working in the electrical industry

Associate Degree Program

Graduation Requirements

Successful completion of the courses listed below with a grade of "C" or higher in all ELEC courses; successful completion of the Career Services Seminar (CSS 100).

Professional Certifications

Graduates earn an Associate of Science degree and are eligible to take the California General Electrician's Certification Exam (State of California Department of Industrial Relations). The fees for this examination are paid for by SJVC.

Course ID	Course Name	Credit Units
Core Course Requirements		
ELEC 100	OSHA Standards for the Construction Industry	3.0
ELEC 110	Electrical Conduit Bending	2.0
ELEC 120	Blueprint Reading for Electricians	5.0
ELEC 130	Technical Math and Electric Circuits	10.0
ELEC 200	Residential Wiring	5.0
ELEC 210	Commercial and Industrial Wiring	10.0

ELEC 220	Programmable Logic Controllers/ Industrial Electronics	5.0
Core Courses Total		40.0
General Education Course Requirements		
ENG 121	Composition and Reading - Part A	3.0
ENG 122	Composition and Reading - Part B	3.0
MTH 121	College Algebra - Part A	3.0
MTH 122	College Algebra - Part B	3.0
NSC 1	Introduction to the Natural Sciences	3.0
PHIL 1C	Ethics	3.0
PSY 1	General Psychology	3.0
SOC 1	Introduction to Sociology	3.0
General Education Courses Total		24.0
Total		64.0

Certificate of Completion Program

Graduation Requirements

Successful completion of the courses listed below with a grade of "C" or higher in all ELEC courses; successful completion of the Career Services Seminar (CSS 100).

Professional Certifications

Graduates earn a Certificate of Completion and are eligible to take the California General Electrician's Certification Exam (State of California Department of Industrial Relations). The fees for this examination are paid for by SJVC.

Course ID	Course Name	Credit Units
Core Course Requirements		
ELEC 100	OSHA Standards for the Construction Industry	3.0
ELEC 110	Electrical Conduit Bending	2.0
ELEC 120	Blueprint Reading for Electricians	5.0
ELEC 130	Technical Math and Electric Circuits	10.0
ELEC 200	Residential Wiring	5.0
ELEC 210	Commercial and Industrial Wiring	10.0
ELEC 220	Programmable Logic Controllers/ Industrial Electronics	5.0
Total		40.0

ABILITY TO BENEFIT

"Ability to benefit" is defined as the demonstrated aptitude to successfully complete the educational program and subsequently be employed. The College has determined that 'ability to benefit' is demonstrated by achievement of high school graduation, achievement of a GED or its equivalent and as such does not accept applicants who lack these credentials.

ADMISSION PROCEDURES AND REQUIREMENTS

The Admissions Department is dedicated to assisting prospective students in selecting programs that best suit their needs and qualifications. In order to ensure that prospective students are a good match for their selected program of interest, *SJVC* has established the following admission procedures and requirements:

- Applicants must possess a high school diploma or the equivalent.
- Applicants must participate in an interview with an admissions advisor.
- Applicants to on-ground and online programs must participate in an admissions assessment. The assessment instrument(s) and process varies by program. The purpose of the assessment is to evaluate the cognitive ability of prospective students. Each program has a required minimum entry score. The Admissions Department utilizes the results from the assessment(s) to select prospective students who have the best opportunity to achieve success in their chosen program.

Some programs have additional entrance procedures and requirements which may be found in the Admission Requirements statement listed for each program that appears in this catalog.

- Applicants must meet with either the Enrollment Services Director or a campus manager or their designee for an acceptance interview. In addition to this acceptance interview, applicants may be required to meet with the Director of their selected program.
- Applicants must meet with the Financial Services Department to confirm arrangements to meet tuition obligations.
- Upon completion of the above, the applicant will sign an Enrollment Agreement which sets forth specific information such as start and graduation dates, tuition information, academic schedule, etc.
- All new student enrollments must complete New Student Orientation prior to their first class session.

Programs leading to occupations requiring licensure may have licensing requirements that prohibit enrollment of applicants with relevant past criminal convictions.

LANGUAGE PROFICIENCY

Students are required to have proficiency in the English language as documented in the admissions process:

- Conversational proficiency: interview
- Written proficiency: application essay
- Reading comprehension: assessment instrument

All enrollments related documents, including the Enrollment Agreement and the School Performance Fact Sheet, are printed in

English. If English is not your primary language, you have the right to retain an interpreter at your own cost to obtain a clear explanation of the terms and conditions of the Enrollment Agreement, including the cancellation and refund policies, and other enrollment related documents, in your primary language

RIGHT TO CANCEL

New students have the 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.

Cancellation shall occur when the student gives written notice of cancellation at the address of the College shown on top of the front page of the enrollment agreement. Students can submit this written notice by mail, hand delivery, or email. The written notice of cancellation need not take any particular form and, however expressed, it is effective if it shows that the student no longer wishes to be bound by the enrollment agreement.

If the student cancels the enrollment agreement, the College will not charge institutional charges; however, the College retains the nonrefundable application fee and may charge for equipment not returned in a timely manner in good condition.

INTERNATIONAL STUDENTS (VISA SERVICES)

SJVC is approved to issue F-1 and M-1 Visas to qualified international students. Students holding J or H Visas may also be eligible to attend as an international student. The following items are required from international applicants:

- A TOEFL score of at least 500, paper-based; 61, internet based; or 173, computer based.
- Certified Statement regarding Financial Support.
- Transcripts from high school and/or college attended.
- Verification of good health.
- Purchase of medical insurance to cover the school year.
- Proof of International J or H Visa status, if applicable.

There is no charge for issuing a visa.

TRANSFER OF CREDIT

SJVC is committed to helping students achieve their educational goals. The College recognizes that – prior to enrollment at *SJVC*, students may have completed course work at other institutions that they may want to transfer in for credit toward an *SJVC* Associate of Science Degree or Certificate of Completion program or may already possess the general education skills and competencies expected of a two-year college graduate. Therefore, it is the policy of *SJVC* to provide opportunities for course challenge and to thoroughly evaluate prior coursework to ensure that the nature, content, associated student learning outcomes, and level of credit earned aligns with the equivalent course requirements of the *SJVC* program in which the student is transferring into. To that end, a maximum of 50% of the total credits required for an *SJVC* degree or certificate program may be transferred in from another institution; however, in exigent circumstances (e.g. school closure), the College may allow up