

SAN JOAQUIN DELTA COMMUNITY COLLEGE DISTRICT

Electrical/Solar Instructor (Associate Professor)

DESCRIPTION

Under the general supervision of the Division Dean for Applied Science, Business and Technology will provide instruction in the area of electrical technology with emphasis in basic electricity, commercial electricity, industrial electricity, industrial motors and controls and programmable logic controls.

EXAMPLES OF DUTIES AND RESPONSIBILITIES

Duties and responsibilities may include, but are not limited to the following:

1. Teach courses in electrical technology in accordance with course descriptions and course information sheets.
2. Conduct related laboratory instruction, including safety instruction and uses of materials, tools, and laboratory equipment.
3. Advise and assist students in achieving stated course objectives.
4. Evaluate the progress of each student and notify students in need of counseling services and/or tutorial assistance.
5. Meet with the Electrical Technology Advisory Committee and participate in the review of programs and curriculum.
6. Maintain inventory records of equipment and maintain equipment in proper operating condition.
7. Order materials, supplies, equipment and parts as needed to support instruction.
8. Assist in designing, developing, and evaluating the curriculum, new courses, and related course materials.
9. Attend industry-related seminars, meetings, and workshops and visit job sites to remain current with new technology in the electrical field.
10. Support, participate in, and promote articulation with local high school programs.
11. Coordinate the activities of the electrical technology program with other technical programs in the division.

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MINIMUM QUALIFICATIONS

- Any Bachelor's Degree from an accredited institution and two years of experience, **OR** any Associate's Degree and six years of experience.
- Sensitivity to and demonstrated success teaching in a diverse academic, socioeconomic, cultural, disability, and ethnic environment such as a community college.

KNOWLEDGE OF:

- Evaluation of Structure and Site Survey
- Design of Energy Storage Systems
- Wiring and Conduit Size Calculations
- Overcurrent Protection Selection
- Plan Sets and confirmation of AHJ requirements
- Local Permits and Approvals
- Photovoltaic System Design
- Safety standards and Site-Specific Safety Plan
- Installation of Utility Interconnection
- Installation of System Instrumentation
- Installation of Battery Components
- Installation of PV Modules
- System Commissioning
- Customer System Orientation
- System Testing and Verification Operation

DESIRABLE QUALIFICATIONS

- Possession of Bachelor's Degree in electrical technology, industrial technology, or a related area.
- Two years work experience in the field of electrical technology with an emphasis on industrial and commercial electricity.
- Completion of an Electrical apprenticeship program (Journeyman electrician).
- Demonstrated successful teaching experience in electrical technology, or a related technology, at the secondary or post-secondary level.
- Demonstrated ability to prepare and present information in classroom and laboratory instructional settings.

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- Demonstrated ability to work in a cooperative manner with staff, students and community groups.
- Demonstrated ability to work with advisory committees in the development and revision of curriculum, job placement strategies, and program review.
- Demonstrated utilization of individualized teaching methodologies to meet the needs of Delta College's diverse student body, which includes a wide range of abilities, ages, nationalities, and cultures.
- Demonstrated utilization of innovative methods and adaptability to change required to instruct in an area of rapidly changing technology.
- Demonstrated experience with computers and computer applications.
- Demonstrated ability to teach photovoltaic concepts
- Ability to train students for the NABCEP, or similar, photovoltaic installer technician certification
- Expertise in the use of computers for teaching and management of online course information. Familiarity and ability to teach in a distance learning environment.
- Ability to teach in a technologically rich environment.
- Ability to teach in a large lecture format.

Adopted: 12/11

Revised 1/12