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Minimum Qualification Specifications
for the Class:

ELECTRONIC TRAFFIC SIGNAL TECHNICIAN
(ELECTRONIC TRAFFIC SIGNAL TECH)

Experience Requirements

Applicants must have had progressively responsible experience of the kind, quality and quantity described in the following paragraphs, or any equivalent combination of training and experience:

General Experience: Two (2) years of work experience which demonstrates the possession of knowledge of electricity and electronic principles and theories; tools, instruments and materials used in electrical and electronic work; electrical and electronic work hazards and safety practices; and ability to use electronic and electrical test instruments to test and replace faulty electronic modules; and read and interpret plans, blueprints, manufacturer's specifications, and diagrams of electrical/electronic circuits and prepare reports.

The knowledge and abilities may be demonstrated through experience which involved the following:

- (1) Testing voltages and resistances of circuits to isolate defects by following schematic diagrams and by using voltmeter, oscilloscope, signal generator, and other electronic testing instruments; or
- (2) Troubleshooting and replacing faulty electronic modules within traffic signal controllers or other electronic equipment.

Specialized Experience: One (1) year of work experience which demonstrated possession of knowledge of electrical and electronic principles and theories as they apply to the repair of minicomputers and electronic components such as oscillating, multivibrator, pulse, memory and integrated circuits and ability to read, understand, and prepare plans and schematic diagrams of applicable electrical and electronic circuits and test and repair or test and construct printed circuit assemblies.

The knowledge and ability may be demonstrated through, but not limited to, experience which involved the following:

- (1) Repairing electronic components of traffic signal controllers;

- (2) Testing and repairing or testing and constructing printed circuit assemblies;
- (3) Repairing electronic equipment such as computers, industrial controls, radar systems, telemetering and missile control systems and transmitters.

Substitution Allowed

Technical training in electronics at an accredited technical institute or college above the high school level may be substituted for the General Experience requirement on a year-for-year basis up to a maximum of two (2) years.

Quality of Experience

Possession of the required number of years of experience will not in itself be accepted as proof of qualification for a position. The applicant's overall experience must have been of such scope and level of responsibility as to conclusively demonstrate that he/she has the ability to perform the duties of the position for which he/she is being considered.

License Required


1. A valid State of Hawaii Journey Worker Electrician's License, and
2. A valid license to drive in the State of Hawaii.

Physical and Medical Requirements

Applicants must be able to perform the essential functions of the position effectively and safely, with or without reasonable accommodation.

This is an amendment to the minimum qualification specifications for the class ELECTRONIC TRAFFIC SIGNAL TECHNICIAN which were approved on July 18, 2014.

Date Approved: 8/31/14



JAMES K. NISHIMOTO, Director
Department of Human Resources Development