

R048 / JOB TITLE GUIDE / VERSION 0.1

Airport electrician

Airport electricians work on airport electrical infrastructure within the scope of their training and authority. Their installations can differ considerably from domestic work. They are not automatically aircraft avionics technicians, and a driving licence is distinct from electrical competence or permission to work on a particular installation.

What the role does

- Maintain and repair assigned airport electrical installations.
- Support reliability, fault reporting and accurate work records.
- Coordinate work with the responsible technical teams and approved procedures.

Where the work happens

Airport facilities and assigned electrical infrastructure; shift and call-out arrangements vary by employer.

Employer example 1

City and County of San Francisco • United States - California • Airport Electrician (9240) - Citywide (A00034)

Active vacancy when checked • Checked 2026-10-27 [E048-SFO]

Category	What this employer states
Essential in this source	Recognised electrician apprenticeship plus two years' specified high-voltage journey-level experience; stated experience substitution is allowed. Valid California driving licence.
Desirable in this source	Medium-voltage testing/splicing, substation controls and airfield-lighting experience.
Other stated conditions	Citywide examination recruitment; variable shifts and stated screening/assessment conditions.

Advert accepts applications at least through 27 October 2026, then may close. Active as checked; no individual appointment is promised.

Employer example 2

Clark County Department of Aviation • United States - Nevada • Electrician - 26-6559X

Active vacancy when checked • Checked 2026-10-27 [E048-CLARK]

Category	What this employer states
Essential in this source	High-school equivalent and six years' skilled electrical experience; recognised apprenticeship can replace four years. Nevada Class C driving licence at appointment.
Desirable in this source	Trade school, industrial/electronic-controls experience and Nevada "F" fire-alarm certification.
Other stated conditions	Advert states screening, residency and work-authorisation conditions; no H1B sponsorship/transfer.

Open continuous eligibility-list recruitment, not guaranteed immediate placement. Conditions are Clark County-specific.

PREPARE AND VERIFY

Separate requirements from preparation

California: C-10 contractor work only: DIR identifies certification requirements for electricians working for C-10 contractors. Employer context matters: do not automatically transfer that rule to the SFO city post or Nevada example. Confirm the relevant registration, supervision and work authorisation for the actual contract and installation. [O048-DIR]

Still to verify: Two primary employer examples verified. Full jurisdiction-by-jurisdiction trade-law applicability remains outside this guide.

Explore a realistic entry route

- Separate trade training, electrical certification, driving credentials and site permissions in your comparison sheet. Each answers a different question. Read permitted experience substitutions carefully rather than assuming a course or apprenticeship automatically satisfies every employer.
- Build verifiable evidence from approved training and authorised work. Describe equipment scope and supervision honestly; airport work may involve systems outside your previous experience. Never attempt live testing, switching or repairs to create an application portfolio.
- Ask about induction, task authorisation, technical supervision and training for unfamiliar airport infrastructure. Check the competent authority for the actual jurisdiction and employer type. Do not use an advertisement from another state to decide your legal scope of practice.

Build evidence of your skills

- Prepare a redacted learning log showing genuine training, supervised activities and outstanding development needs. Exclude operational drawings, access details and proprietary records.
- Create a fictional work-handover format with task status, unresolved questions and responsible reviewer. Use no switching sequence, isolation method or electrical values intended for real work.

Prepare for an interview

Reflection prompts only, not questions claimed to be used by an employer.

- Preparation prompt: describe how you recognise when a task exceeds your current authorisation. Explain the escalation and learning process, not a hazardous technical procedure.
- Ask which installations the post covers and how competence is assessed before independent work. Clarify whether the employer is a public authority or contractor and which credentials apply.

Investigate possible next roles

Investigate specialist electrical systems, planning or supervision after suitable training; airport electrician experience does not by itself authorise aircraft maintenance.

Sources and scope

[E048-SFO] [City and County of San Francisco Airport Electrician \(9240\) - Citywide \(A00034\)](#)

Active vacancy when checked. United States - California. Checked 2026-10-27.

[E048-CLARK] [Clark County Department of Aviation Electrician - 26-6559X](#)

Active vacancy when checked. United States - Nevada. Checked 2026-10-27.

[O048-DIR] [California Department of Industrial Relations Who needs to be certified to work in California as an electrician](#)

Certification framework for electricians working for C-10 licensed contractors. The cited scope is contractor employment; it is not automatically a requirement for every city-employed airport electrician or a Nevada rule. Checked 2026-10-27.

Educational requirements guide, not operational instruction or an employment guarantee. Verify current requirements with the relevant authority and employer. Conditions belong to the named employer, post and jurisdiction. They are not worldwide eligibility rules; check the current advertisement and local authority before making training or application decisions. No job guarantee.