

# Electrical Apprenticeship (ELAP)

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## Courses

### ***ELAP 1100 Electrical Internship Year 1: 10 semester hours.***

First year (2,000 hours) of documented on-the-job work experience. The student must be working under the supervision of a journeyman electrician and these hours must be documented through the Electrical Division, Idaho Department of Labor and Industrial Services. D

### ***ELAP 1101 Electrical Theory Year 1: 3 semester hours.***

Theory and instruction in orientation to the electrical trade, safety, basic math, electrical DC theory through combined circuits, introduction to the National Electric Code, and general wiring methods. D

### ***ELAP 1150 Electrical Internship Year 2: 10 semester hours.***

Second year (2,000) hours of documented on-the-job work experience. The student must be working under the supervision of a journeyman electrician and these hours must be documented through the Electrical Division, Idaho Department of Labor and Industrial Services. D

### ***ELAP 1151 Electrical Theory Year 2: 3 semester hours.***

Theory and instruction in safety, electrical AC theory through R.L.C., advanced math, motors/generators basics, transformer basics, overcurrent protection, and grounding. D

### ***ELAP 2200 Electrical Internship Year 3: 10 semester hours.***

Third year (2,000 hours) of documented on-the-job work experience. The student must be working under the supervision of a journeyman electrician and these hours must be documented through the Electrical Division, Idaho Department of Labor and Industrial Services. D

### ***ELAP 2201 Electrical Theory Year 3: 3 semester hours.***

Theory and instruction in safety, blueprint reading, motor control bases, advanced grounding, advanced transformers/motors/generators, and special occupancy and wiring methods. D

### ***ELAP 2250 Electrical Internship Year 4: 10 semester hours.***

Fourth year (2,000 hours) of documented on-the-job work experience. The student must be working under the supervision of a journeyman electrician and these hours must be documented through the Electrical Division, Idaho Department of Labor and Industrial Services. D

### ***ELAP 2251 Electrical Theory Year 4: 3 semester hours.***

Theory and instruction in safety, advanced motor controls, load calculations, leadership skills, high voltage, and National Electrical Code review. D