

Assistant Signal Systems Electrician (3818)  
Task List

1. Installs, troubleshoots, repairs, reprograms, maintains and/or replaces traffic signal equipment at intersections using standard hand tools including screwdrivers, hammers, lineman pliers, digital multimeters, and power tools such as jackhammers.
2. Installs, troubleshoots, reprograms, and/or replaces electronic traffic controllers in response to a trouble call or for basic maintenance purpose using standard hand tools.
3. Installs, troubleshoots, and/or replaces fiber optic cable, video, and signal communication devices in response to a trouble call, for basic maintenance purposes, or for installation.
4. Enters intersection timing data into a signal controller keyboard to ensure normal operation of the intersection.
5. Inspects the controller timing to the timing chart to ensure timing is correct and modify if necessary in order to have traffic signal lights working properly.
6. Visually compares field equipment to the engineering print to ensure that the intersection is in compliance.
7. Installs or replaces electrical components such as loop detectors, infrared detectors, and speed feedback signs using soldering tools such as pliers, wire cutters and strippers, butt sets, and other hand tools.
8. Installs temporary traffic signals by working in collaboration with a crew under the direction of a Signal Systems Electrician to restore intersection safety in response to damaged traffic signals.
9. Responds to emergency traffic signal and ATSAC trouble calls using radio or other hand-held communication devices to provide maintenance and/or repair.
10. Safely operates powertools such as a 90 lb. jackhammer, aerial lift bucket (up to 45 feet), booms/cranes, and skid steer loader by using all appropriate safety equipment and adhering to safety standards in order to perform repair, maintenance, and installation of traffic signals.
11. Operates class B commercial vehicles such as air-brake trucks, cranes, and platform truck to transfer equipment, material to perform maintenance, repair, and installation of traffic signals.
12. Reads Thomas guide maps to locate and travel to job sites.

13. Digs trenches and foundation holes by using heavy-duty construction equipment such as shovels, drills, and pneumatic clayspades.
14. Orally communicates with supervisor, co-workers, and the public in a tactful and professional manner.
15. Reads manufacturer's equipment manuals in order to properly install and set up new equipment or adjust equipment as needed.
16. Operates aerial lift bucket or hydro-crane in proximity to high voltage power lines in adherence to safety standards in order to repair, maintain, or install traffic signal equipment.
17. Performs pretrip inspection procedures including visual vehicle inspection and completion of safety log paperwork before operating Class B vehicle.