

Electrical Craft Helper
(Class Code 3799)

Competency List

1. Physical strength (in hands, arms, legs and back) sufficient to lift and carry objects weighing up to 75 lbs.
2. Physical endurance to perform arduous physical tasks for extended periods of time or extremely arduous physical tasks for short periods of time with only brief rest breaks.
3. Agility in climbing up and down trenches and ladders and balancing while working in confined spaces.
4. Ability to use eye, hand, and foot coordination in order to access poles on hillsides and ravines.
5. Manual dexterity using hand and power tools in order to assemble and disassemble, maintain, and repair equipment and apparatuses.
6. Knowledge of proper lifting techniques for lifting objects.
7. Ability to use and care for hand and power tools such as hammers, screwdrivers, wrenches, pliers, saws, drills, ladders, ropes in order to keep these tools in good working condition for various jobs and journey level workers.
8. Knowledge of basic physical principles such as the operation of mechanical devices and tools in order for the devices and tools to operate sufficiently and efficiently.

9. Knowledge of the types and uses of conducting and insulating materials such as metals and synthetic materials in order to work near energized conductors and equipment.
10. Knowledge of how to tie common types of knots such as the square knot, bowline, clove hitch, timber hitch in order to secure items to the hand line used in underground and overhead work.
11. Knowledge of basic arithmetic such as addition, subtraction, multiplication and division in order to solve problems.
12. Ability to read and comprehend written instructions such as plates on transformers and cables, forms, safety precaution labels, in order to understand work related documents.
13. Ability to communicate in writing sufficient to fill out basic accident forms.
14. Ability to use good judgment and common sense in order to organize work and avoid potentially dangerous working situations.
15. Ability to get along with co-workers and work effectively as a member of a team.
16. Ability to accurately understand and follow oral directions in order to work safely and complete task as directed.
17. Ability to work under minimal supervision in order to carry out assignments.
18. Ability to learn the steps involved in performing various tasks, how to use special tools and equipment, and the terminology of the trade in order to efficiently complete a task.

19. Ability to perform work dependably and reliably in order to ensure work quality and customer satisfaction.
20. Willingness to perform physically tiring, objectionable, and dirty jobs.
21. Ability to improvise the use of tools, equipment, apparatus, and other materials in order to solve problems.
22. Willingness to work from high ladders (24 feet) and/or closed confined spaces underground.
23. Ability to communicate orally with supervisors, co-workers, and the public in order to explain service and safety procedures, work schedules, and reasons for electrical outages.
24. Ability to react quickly in emergency or dangerous situations in order to prevent personal injuries or damage to expensive equipment.
25. Willingness to follow instructions, accepting criticism, and follow suggestions for improvement.
26. Ability to drive vehicles and equipment requiring a class B or C driver's license in a safe manner.
27. Ability to keep the work area clean and free of debris and equipment.
28. Ability to understand and follow safety rules/regulations in order to perform work under hazardous working conditions without causing self or others bodily or material damage.
29. Knowledge of how to read test equipment, such as ohmmeters, voltmeters, ammeters, meggers, electric gas indicator's in order to assist journey level worker in determining the causes of operating errors.

30. Knowledge of mechanical theory and applications sufficient to perform basic and semi-skilled assembly, and reassembly work of electrical and lighting equipment in order to clean and maintain.
31. Knowledge of hand and radio signals in order to communicate.
32. Knowledge of work area traffic control requirements for safe work in surface streets, state highways and freeways (Work Area Traffic Control Handbook).
33. Knowledge of procedures for contacting emergency medical personnel to remote work site areas without radio or cell phone contact (i.e. asking a nearby resident to call or permit phone use or leaving someone with the injured worker and walking or driving to the nearest phone).
34. Ability to inspect vehicle for safety prior to taking vehicle out of the yard, by checking fuel level, brake operation, and lights sufficient to complete safety check form.
35. Knowledge of the Motor Vehicle Code and Department of Water and Power's rules for operation of vehicles.
36. Knowledge of requirements for placing ladders in trenches including depth of trenches.
37. Ability to measure materials such cables and wires.
38. Knowledge of safety equipment, emergency equipment, and first aid supplies such as first aid kits to be carried on trucks going to fieldwork sites.

39. Knowledge of specialized safety equipment to be used for various jobs such as using blowers for ventilation in confined spaces, ear protection and hard hats.
40. Knowledge of proper procedures for safe work in confined spaces, including: ventilation requirements, always having an observer above, always using safety harness, and always having an Air Line.
41. Ability to raise and lower tools and materials with ropes.
42. Ability to read and comprehend street maps sufficient to locate work routes or work sites and estimate time required for travel.
43. Ability to assist in the installation of equipment, machines, wiring such as power, lighting, and control circuits, conduit cable, cable boxes, and mobile radio equipment in order to meet specifications.
44. Ability to assist journey level workers inspect various equipment and/or facilities such as electrical and lighting facilities and equipment in order to identify the cause of errors or other problems or defects.
45. Ability to assist journey level workers maintain and repair various equipment and facilities such as lighting and electrical equipment and facilities in order to keep the equipment and facilities working at optimal levels.
46. Knowledge of principles and process for providing customer services such as distributing outage notices and explaining progress on service being provided in order to keep the public informed.
47. Ability to determine the kind of tools and equipment needed to do a job.

48. Ability to alphabetize materials for filing in order to organize documents and materials.