



BOSCHETTI
INDUSTRIES PTY LTD

Position Description

Document Code PDDD

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Position Title:

Detail Design Draftsperson

Position Summary:

Electrical drafters design the technical schematics for transmission and distribution lines that deliver electricity to consumers. Along with an array of traditional drafting tools, they use computer-aided design and drafting (CADD) software to create visuals that assist production and construction workers in the installation and repair of wiring components.

Electrical drafters are responsible for preparing technical drawings of electrical wiring systems. During the drawing process, they analyze information (such as measurements and sketches) provided by engineers, architects and scientists. Drafters apply their knowledge of design and engineering to illustrate visual instructions that relate technical specifications, including dimensions, arrangements and installation procedures. These drawings are then used by electrical workers to install or repair equipment and wiring in power plants, high-voltage distribution centers and communication hubs.

Duties

Electrical drafters collaborate with engineers and architects to receive instructions and resolve design issues. Drafters may also correspond with production and construction workers to clarify design details and receive feedback for improvements. Along with technical drawings, drafters may be required to provide documentation manuals to assist electrical workers during repair or installation. After completing the drafting process, they may be responsible for evaluating drafts to provide cost estimates and ensure plans meet building regulations. Drafters may also be responsible for training and overseeing other drafters and technicians.

Tools

Drafters may also utilize technical manuals, calculators and traditional tools (such as protractors and T-squares) in addition to computer technology.

Duties:

Typical work activities

- 1) Assemble documentation packages and produce drawing sets which are then checked by an engineer or an architect.
- 2) Confer with engineering staff and other personnel to resolve problems.
- 3) Draft working drawings, wiring diagrams, wiring connection specifications or cross-sections of underground cables, as required for instructions to installation crew.
- 4) Draw master sketches to scale showing relation of proposed installations to existing facilities and exact specifications and dimensions.
- 5) Measure factors that affect installation and arrangement of equipment, such as distances to be spanned by wire and cable.
- 6) Study work order requests to determine type of service, such as lighting or power, demanded by installation.
- 7) Visit proposed installation sites and draw rough sketches of location.
- 8) Determine the order of work and the method of presentation, such as orthographic or isometric drawing.
- 9) Explain drawings to production or construction teams and provide adjustments as necessary.
- 10) Prepare and interpret specifications, calculating weights, volumes, and stress factors.
- 11) Reproduce working drawings on copy machines or trace drawings in ink.
- 12) Review completed construction drawings and cost estimates for accuracy and conformity to standards and regulations.
- 13) Supervise and train other technologists, technicians and drafters.
- 14) Write technical reports and draw charts that display statistics and data.
- 15) Use computer-aided drafting equipment and/or conventional drafting stations, technical handbooks, tables, calculators, and traditional drafting tools such as boards, pencils, protractors, and T-squares.