

Energy Transmission







Occupational Groups/Job Families

[Groups may also include supervisor & manager roles]

- Inspectors & QC
- Technicians
- Project Managers & Construction Managers
- Electricians, Wirers & Installers, including Repairers
- Equipment Operators
- General Laborers & Groundmen
- Maintenance
- Engineers

Industry Sub Segments

Maintenance & Repair

Material Handling, Supply

Construction Management

Heavy Equipment Supplier/

Development & Planning

Business Development /

LEVEL

Education / Training

• Fabricating/Forging/

Foundation Contractor

General Contractor

Operator

Logistics

Sales

Operations

Purchasing

Transportation

Safety

Engineering

Management

Installation

Services General

& Processing

Manufacturing

- Meteorology Specialists
- Remote Control Operators / Dispatchers
- Safety and Incident Investigations
- Assembly, Fabricating & Manufacturing Laborers
- Surveyors
- Logisticians & Warehouse
- Analysts / Specialists
- Buyers / Procurement
- Tradeworkers Ironworker, Welder, CNC operator, Machinist
- Site Managers
- Truck Drivers
- Business Developers
- Planners
- Asset Managers
- Operations / Facility Managers
- Trainers
- Schedulers

Clean Energy Sectors

- Solar
- Wind Onshore
- O shore Wind
- Storage
- Transmission

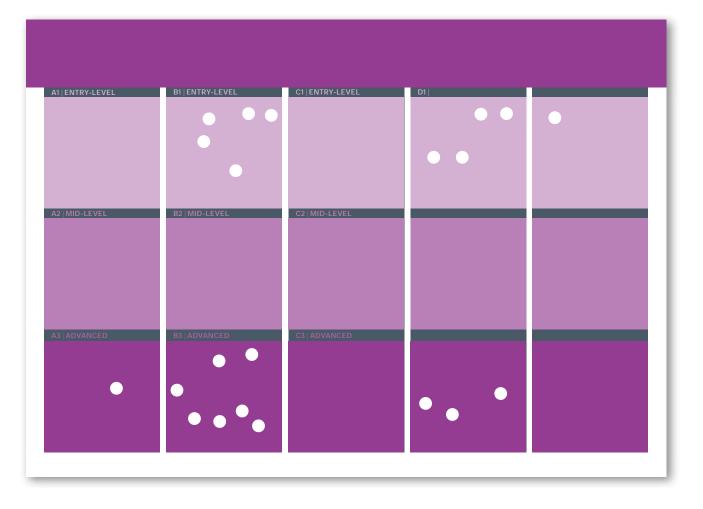
Industry Segments

- Project Development (System Design)
- Operations & Maintenance
- Manufacturing
- Construction / Installation
- Research & Training

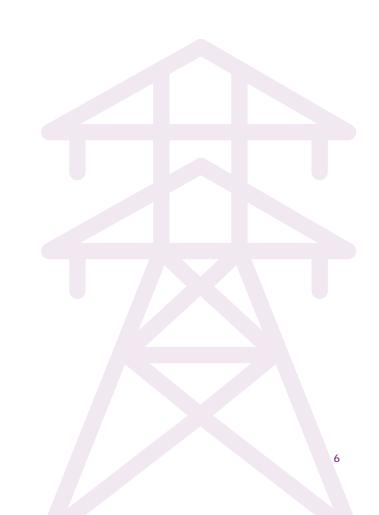
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INDUSTRY SUB SEGMENT |

REQUIREMENTS

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INDUSTRY SUB SEGMENT |

REQUIREMENTS

POSITION REPORTS TO

CAREER PATH MOVES FROM THIS ROLE





INDUSTRY SUB SEGMENT | Engineering

OCCUPATIONAL GROUP | Engineers

Electrical Engineer—Powerhouse, Substation or Relay

DESCRIPTION

Responsible for correct and safe performance of electrical equipment involved in Powerhouse, Substation or Relay energy transmission. Support energization of new or modified equipment and testing activities. Direct phase-out activities and/or coordinate with appropriate personnel. Verify ready to start procedures are complete prior to energizing equipment. Coordinate with construction managers and operations managers on various new projects, upgrades, or modifications. Read electrical design documents and work with other personnel and vendors on maintaining energy transmission.

KNOWLEDGE/SKILLS

Control systems, protective relay systems, equipment inspection and test methods, electrical equipment, electrical engineering, reading schematics

REQUIREMENTS

Education/Training

Bachelor's degree (engineering) preferred or equivalent combination of training & experience.

Experience

- years' experience replacing transmission line relays, writing up reports.

Credentialing Required/Optional

PE (Professional Engineer) preferred.

POSITION REPORTS TO

Transmission Manager, Transmission Director, Engineering Manager

CAREER PATH MOVES FROM THIS ROLE

Senior Electrical Engineer, Transmission Manager, Project Manager





REQUIREMENTS

POSITION REPORTS TO

CAREER PATH MOVES FROM THIS ROLE



REQUIREMENTS

POSITION REPORTS TO

CAREER PATH MOVES FROM THIS ROLE



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Thank You to Research Contributors:

Additional Research Sources listed on following page.

For questions about this report, please contact Tom Vinson at tvinson@cleanpower.org

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American Clean Power Occupations & Career Maps Additional Research Sources:

BLS – Bureau of Labor Statistics

CANWEA "A Roadmap to Standardized Core Competencies for Wind Turbine Technician Training" Department of Energy (DOE)