

SMALL CELL TECHNICIAN

Competency-Based Occupation

The Wireless Infrastructure Association (WIA) is the National Sponsor of the registered apprenticeship program known as TIRAP. Since 2017, WIA has administered National Standards of Apprenticeship along with the United States Department of Labor approved, apprentice-able occupations associated with the program. Graduates of the program receive a national, industry-recognized credential that certifies occupation proficiency and provides opportunities for career advancement.

TIRAP.ORG

OCCUPATION SUMMARY

Small Cell Technicians are members of a wireless service deployment team responsible for the deployment and maintenance of small cells, which provide coverage and capacity solutions for the outdoor environment. The skill set includes installation, deployment, maintenance and support of small cells on a variety of structures (poles, buildings, street furniture etc.), and the preparation for power and fiber backhaul, for wireless operators.

ON THE JOB LEARNING

Skills Development

- Completes or assists in the completion of pre-work forms including Job Hazard Analysis
- Familiarity with General Construction Methods such as cable/ system identification, various installation methods for different types of poles, mounts and ground furniture/ cabinets.
- Installs radio cabinets, radios, shrouds, antenna(s) and auxiliary components as well as coaxial cable, fiber optic and power cables using various attachment and routing methods
- Understands RFDS (RF Data Sheets), Bill of Materials (BOM), blueprints and wire diagrams.
- Assists with sweep and antenna testing (if applicable) as well as general troubleshooting
- Establishes Safe Work Zones for pedestrian foot traffic control measures, if required
- Assists with general construction close-out documentation while using Office Tools and PC Software Products
- Operates commonly used tools and equipment
- Uses and Inspects Personal Protection Equipment
- Safely drives a bucket truck, if required

CLASSROOM TRAINING (PARTIAL LIST)

- OSHA 10, First Aid/CPR
- Introduction to Cell Sites, Small Cells, and Overview of RF Sources
- Fiber for Small Cells – Front Haul Vs. Backhaul, Fiber Access and Routing Considerations, Splicing and Connectorization