STATION/PBX INSTALLER & REPAIR TECHNICIAN

APPENDIX A

O*NET CODE 85502

This training outline is a minimum standard for Work Processes and Related Instruction. Changes in technology and regulations may result in the need for additional on-the-job or classroom training.

WORK PROCESSES

Ap	pro	oxim	ate	Ho	urs

A. Basic Telephone Cable Installation and Terminations

1000

- 1. Safety demonstration throughout performance is required.
- 2. Building code requirements and floor plans.
- Cable and wire installation using floor duct, conduct, stud drilling and associated tools and equipment.
- 4. Cable and wire termination using industry standard material, equipment and color code.

B. Telephone Station and Control Equipment Installation and Repair

2000

- 1. Basic electrical and telephone theory, print reading and key sheets.
- 2. Installation of 1A2 and similar key systems.
- 3. Backboard layouts.
- 4. Power supplies.
- 5. Buzzer circuits.
- Ringer matrix.
- 7. Installation of specialized key systems, i.e., TIE Key-Lux, Omega, etc.
- 8. Trouble shooting all key systems.
- 9. Test equipment, i.e., tone, test set, buglamp, V.O.M.

C. Installation and Maintenance of PABX Systems

2000

- 1. Electrical and environmental applications, i.e., power, grounding, air conditioning and humidity control.
- 2. System cabling requirements.
- 3. System backboard layout.

- 4. System program and strapping.
- 5. System installation.
- 6. Testing and troubleshooting.
- 7. Test equipment, i.e., scope and special test gear.

D. Complete Telephone Systems Installation and Repair

1000

- 1. Advanced electronics.
- 2. Specialized equipment.
- 3. Telephone transmission.

Approximate Total Hours

6000

Apprenticeship work processes are applicable only to training curricula for apprentices in approved programs. Apprenticeship work processes have no impact on classification determinations under Article 8 or 9 of the Labor Law. For guidance regarding classification for purposes of Article 8 or 9 of the Labor Law, please refer to https://doi.ny.gov/public-work-and-prevailing-wage

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APPENDIX B

RELATED INSTRUCTION

Blueprint Reading, Sketching and Drawing

- 1. Elementary Blueprint Reading, Drawing and Sketching
- Blueprint Reading for Switchboard Technicians
- Symbols, Scales, Codes, Circuit Schematics and Diagrams

Related Mathematics

- 1. Fundamentals, Formula Solutions of Circuit Problems
- 2. Proportion, Interpolation, Estimation
- Business Form and Records Requiring Computations

Science

- 1. Basic Physics
- 2. Electricity-Electronics Fundamentals, Circuit Analysis, Component Function
- 3. Test Procedures, Equipment
- 4. AC Fundamentals, Application
- 5. DC Fundamentals, Application
- 6. Basic, Applied Telephony

Safety and First Aid

- 1. Fundamentals, Industry Safety Programs
- 2. Resusitation and Trade Safety
- 3. First Aid (6.5 hours every 3 years)
- 4. Sexual Harassment Prevention Training must comply with section 201-g of the Labor Law)

Industrial and Labor Relations

- 1. History, Background
- 2. Current Laws, Practices

Local-State-Federal Codes

- 1. Electrical
- 2. Telephony

Other Related Courses as necessary

144 hours of Related Instruction is required for each Apprentice for each year.

Appendix B topics are approved by New York State Education Department.