

# **Rodine Communications Inc. Telecommunications Technician**

## **JOB DESCRIPTION**

Install and program voice and data infrastructure including but not limited to Phone Systems, Voice Mail Systems, Category 3 through Category 6 wire, Setup terminals and racks, Labeling of all installed wiring, install data equipment including DSL modems, Hubs and Switches.

## **SCOPE**

The Telecommunications Technician installs and programs wiring and equipment for all of Rodine Communications Inc. customers; demonstrates a thorough understanding of BICSI codes and standards and understands telecommunications equipment and their purpose.

## **KEY DUTIES AND RESPONSIBILITIES**

- Provides hands-on assistance and troubleshoots telecommunications equipment, wiring and data equipment
- Verifies installation with customer
- Completes all documentation on customer work order including but not limited to, time spent at location, materials used, system configuration worksheet.
- Work with and have a complete understanding of 66 and 110 blocks, surge protection, grounding infrastructure, digital and analog transmission, LAN characteristics, and LAN Hardware and Software, and the purpose thereof.
- Read, Understand and learn from all technical manuals.
- Read and understand all Dispatch orders.
- Program systems including but not limited to Phone systems, Voice Mail Systems, DSL Modems.
- Responsible for new installs and maintenance
- Quick Problem diagnosis and resolution
- Ability to work with no supervision
- Perform major programming changes and hardware repairs
- Checking all work orders for accuracy
- Ensure Quality craftsmanship of all jobs
- Ensure all Jobs meet Time, Bid and Budget considerations
- Ensure Departmental Policies and Procedures are followed
- Maintain Cooperative working Relationships with Customers, Employees, and Vendors.
- Ensuring a safe and healthful work place

## **EMPLOYMENT STANDARDS**

### **ABILITY TO:**

Work with all Rodine Communications Inc. employees and customers to promote effective use of phone and data equipment installed, compose training material on installed equipment for customers, multi-task and meet time-sensitive deadlines, demonstrate good attention to detail, demonstrate good verbal and written skills.

### **KNOWLEDGE OF:**

#### **Structured Premises Cabling Systems** (including but not limited to the following)

Entrance Facilities, Backbone, Horizontal, Work Areas  
Equipment Room, telecommunications Rooms  
Cross-Connects—Main, Intermediate, Horizontal

#### **Standards** (including but not limited to the following)

ANSI/TIA/EIA-568-B, 569-B, 570-A, 606-A, 607-A  
ANSI/NECA.BICSI-568  
ANSI/TIA/EIA-526-7 AND 14-A  
National Electrical Code  
National Fire Protection Code  
BICSI TDMM and NDRM (overview)

#### **Plans and Specifications**

Blueprints  
Construction Specifications

#### **Media Characteristics**

Emerging Technologies  
Twisted-Pair (UTP, ScTP, STP-A)  
Color Code  
Categories of Cables (3-6)  
Coaxial  
Optical Fiber Cable (singlemode and multimode)

#### **Connectors**

Emerging Technologies  
UTP, ScTP, Coaxial, Optical Fiber

Connector pin Configurations  
Color Codes

### **Transmission Characteristics**

AC/DC  
Analog/Digital Signals  
Copper Cable Media  
Cable Bandwidth-Megahertz vs. Megabits per Second  
Digital Signaling

### **Grounding, Bonding, and Electrical Protection**

Installation  
Design  
Testing on earth ground

### **Defining LAN's**

LAN Characteristics  
Physical and Logical topologies  
Ethernet and Token-Ring

### **Components of a LAN**

LAN Hardware and Software

### **Safety**

OSHA  
Common Safety Practices  
Personal Protective Equipment  
Hazardous Environments

### **Professionalism**

Customer Relations  
Communications Skills  
Professional Appearance

### **Preparation for Installation**

Developing a Job Plan  
Space and Pathway Design  
Performing a Site Survey  
Building Closets

Building Telecommunications Rooms  
Installing Grounding Infrastructure  
Preparing Work area outlet locations  
Installing Support system Infrastructure

### **Pulling Cable**

Pulling Backbone and Horizontal twisted-pair cable  
Pulling Optical fiber Cable

### **Firestopping**

Responsibilities  
System  
New and existing Penetrations

### **Cable Termination**

Terminate ScTP, STP-A  
Pre-Termination functions (forming, dressing, fanning, and labeling Cables)  
Copper cable termination (UTP, Krone, BIX, 110, 66, ScTP)  
Copper Crimp termination  
Coaxial cable termination  
Optical Fiber termination (epoxy, adhesive, or crimp)

### **Splicing Cable**

Copper  
Optical Fiber

### **Cable Testing**

Copper Cable testing and certification  
Optical Fiber cable testing using a lightsource or power meter, and OTDR

### **Cable Troubleshooting**

Copper Cables  
Optical Fiber Cables

### **Retrofits and System Upgrades**

Identifying active Circuits  
Performing cutovers  
Removal of Abandoned Cables

## **Miscellaneous Duties**

Administrative tasks  
Documenting Test Results  
Documenting as-builts  
Coping with changing technologies  
Departmental Procedures

## **MINIMUM QUALIFICATIONS:**

Education: Graduation from high school

Experience: Minimum of Four years of installing and Programming PBX and Data equipment, Installing Backbone and horizontal cabling, Grounding and Bonding, Departmental Policies and Procedures

## **LICENSE OR CERTIFICATE**

This Classification requires the use of a company vehicle. Employee Must Possess a Valid Driver's License and an acceptable driving record.

Send Resume to the Following Address:

[jobs@rodine.com](mailto:jobs@rodine.com)

Fax: 970-526-5070

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