

For

Data Network and Telecommunication Technology

- Read and interpret technical instructions, technical literature, and manufacturer's documentation from print and web-based sources. Use professional publications to continually keep updated on advances in technologies.
- Write technical reports, correspondence, and instructions to co-workers or clients using proper grammar, spelling and English composition skills.
- Perform computations in electronic applications using algebra at the intermediate level and geometry at the basic level.
- Use appropriate interpersonal skills to interact effectively in a diverse work team. Demonstrate awareness and sensitivity to customer needs, multicultural relations, varying leadership styles, and ethics in the workplace.
- Read and analyze electronic circuit schematic drawings and manufacturers documentation to understand the circuit components and to predict proper circuit performance.
- Use test instruments to measure electrical parameters of analog and digital electronic circuits and use methodical processes to troubleshoot and correct circuit faults.
- Identify computer components and subassemblies and use diagnostic hardware and software tools to identify faulty hardware components or faulty software and hardware set-ups in the systems. Repair as necessary and restore the system to full ion.
- Setup and test data communications that interconnect personal computers via modems, multiplexing equipment and telecommunications data circuits.

- Configure and Install basic telecommunications equipment including PBX switches, T1 trucks, Channel Banks. Understand and install telephone standard wiring and services.
- Install LAN network infrastructure including 10BaseT, 10Base2, and 10Base5 and related connectors. Configure Software settings for TCP-IP, NETBEUI, IPX/SPX protocols. Configure RAS, WEB and FTP servers.