

Occupational Analysis Chart

BROADBAND NETWORK TECHNICIAN

Occupation Description: A Broadband Network Technician installs, maintains and repairs cable and satellite telecommunication systems, including cable television, broadband internet and telephone services. Broadband Network Technicians work in the telecommunications industry, performing services on-site at client premises, in the distribution network, or at the headend. On-site tasks include installations, troubleshooting, and repair of cable, internet or telephone systems. They also perform customer service and education tasks. Headend tasks include directing and routing broadband information to its destination and troubleshooting central problems.

TRADE SAFETY	Use personal protective equipment (PPE) A1	Practice safe working procedures A2				
BROADBAND RF SYSTEMS AND COMPONENTS	Describe RF signal distribution systems	Describe television systems	Apply decibel theory and mathematics	Describe broadband communications architecture	Describe broadband system amplifiers	Interpret broadband RF system designs
	Describe components of subscriber installations	Describe structured cabling systems	Describe transmission systems and components			
	B7	B8	B9			
BROADBAND SYSTEM CONSTRUCTION, INSTALLATION AND UPGRADE	Construct broadband systems (outside plant)	Perform broadband systems installations				
С	C1	C2				



MAINTAIN AND REPAIR BROADBAND SYSTEMS D	Use testing tools and equipment D1	Perform routine and preventive maintenance on broadband systems	Describe signal leakage D3	Describe digital signal maintenance and repair D4	Troubleshoot modem operation D5	Repair broadband systems D6
	Maintain and repair broadband amplifiers D7					
HEADEND E	Describe headend and components	Maintain and repair headend				
FIBER OPTIC SYSTEMS AND COMPONENTS	Describe fiber optic technologies and components	Describe fiber-to-the-premise (FTTP) architecture and components	Maintain and repair fiber optic systems			
MAINTAIN AND REPAIR BROADBAND POWERING SYSTEMS G	Maintain and repair the power distribution system of a broadband network	Maintain and repair power supply systems for broadband networks				