

Broadband Network Technician

CERTIFICATE OF QUALIFICATION EXAM BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Broadband Network Technician Certificate of Qualification Exam*.

Number of questions on each exam: 80

Certificate of Qualification GAC/Competency	#
A. TRADE SAFETY	1
A1. Use personal protective equipment (PPE)	0
A2. Practice safe working procedures	1
B. BROADBAND RF SYSTEMS AND COMPONENTS	20
B1. Describe RF signal distribution systems	3
B2. Describe television systems	1
B3. Apply decibel theory and mathematics	3
B4. Describe broadband communications architecture	2
B5. Describe broadband system amplifiers	3
B6. Interpret broadband RF system designs	2
B7. Describe components of subscriber installations	2
B8. Describe structured cabling systems	1
B9. Describe transmission systems and components	3
C. BROADBAND SYSTEM CONSTRUCTION, INSTALLATION AND UPGRADE	12
C1. Construct broadband systems (outside plant)	7
C2. Perform broadband systems installations	5
D. MAINTAIN AND REPAIR BROADBAND SYSTEMS	20
D1. Use testing tools and equipment	4
D2. Perform routine and preventive maintenance on broadband systems	5
D3. Describe signal leakage	2
D4. Describe digital signal maintenance and repair	2
D5. Troubleshoot modem operation	2
D6. Repair broadband systems	3
D7. Maintain and repair broadband amplifiers	2

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January 1, 2023

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E. HEADEND	7
E1. Describe headend and components	5
E2. Maintain and repair headend	2
F. FIBER OPTIC SYSTEMS AND COMPONENTS	8
F1. Describe fiber optic technologies and components	3
F2. Describe fiber-to-the-premise (FTTP) architecture and components	2
F3. Maintain and repair fiber optic systems	3
G. MAINTAIN AND REPAIR BROADBAND POWERING SYSTEMS	12
G1. Maintain and repair the power distribution system of a broadband network	9
G2. Maintain and repair power supply systems for broadband networks	3
Total:	80