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**Wi-Fi Training Program 2025**

**Module 5**

**Question 5:**

**Compare and contrast Wi-Fi 6 and Wi-Fi 6E in terms of range, bandwidth, and interference.**

**Solution:**

Feature	Wi-Fi 6	Wi-Fi 6E
Frequency Bands	2.4 GHz and 5 GHz	2.4 GHz, 5 GHz, and new 6 GHz band
Range	Better range, especially on 2.4 GHz	Shorter range due to higher 6 GHz frequency
Bandwidth	Up to 160 MHz, often limited by congestion	More bandwidth with up to 7 extra 160 MHz channels
Interference	Higher, shares bands with many other devices	Lower, uses clean 6 GHz band with less overlap
Congestion	More congested due to legacy device support	Less congested, only accessible to Wi-Fi 6E devices
Device Compatibility	Compatible with older Wi-Fi devices	Requires newer devices that support Wi-Fi 6E