

# Technician License Bands and Modes

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This table summarizes the various bands and modes available to the Technician Licensee. I tried to keep it simple, skipping some of the fine points. There are Technician bands above 450 MHz but they are not included here. The VHF and UHF band propagation is shown as local “line of sight” but radio signals propagate beyond the optical horizon.

| <b>Band</b>                 | <b>Frequency Range</b>             | <b>HF/VHF/UHF</b> | <b>Modes (most common)</b>            | <b>Propagation (most common)</b>                         | <b>Comments</b>  |
|-----------------------------|------------------------------------|-------------------|---------------------------------------|--|--|
| 80 Meters through 15 Meters | Various                            | HF                | SSB, CW, but Technicians have only CW | Long distance via skywave (ionosphere bounce)            | Some digital modes are also very popular on these bands.                                     |
| 10 Meters                   | 28.0 to 28.5 MHz                   | HF                | SSB, CW                               | Long distance via skywave (ionosphere bounce)            | When the solar activity is high, 10 Meters can be used to make contact anywhere in the world |
| 6 Meters                    | 50.0 to 54.0 MHz                   | VHF               | SSB, FM, CW                           | Local “line of sight” plus some long distance sporadic-e | Most of the activity is SSB mode   |
| 2 Meters                    | 144.0 to 148.0 MHz                 | VHF               | FM, SSB, CW                           | Local “line of sight”                                    | 2 Meter FM is the most popular mode in amateur radio with many repeaters available           |
| 1.25 Meters                 | 219.0 to 220.0, 222.0 to 225.0 MHz | VHF               | FM, SSB, CW                           | Local “line of sight”                                    | Not much activity in Colorado  |
| 70 cm                       | 420.0 to 450.0 MHz                 | UHF               | FM, SSB, CW                           | Local “line of sight”                                    | 70 cm is the second most popular band for FM and repeaters                                   |