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## CHAPTER 2 - PRINCIPLES OF RADIO OPERATION



Radio technology enables us to communicate over large distances, and also provides us with a useful tool for navigation. Why should we know how radio equipment works? Once again, should there be a fault that causes poor, or complete failure of communication, or the onboard radio navigational aids malfunction, this would significantly limit your ability to **NAVIGATE** and **COMMUNICATE**. Therefore, having some understanding of how radio equipment works, increases your ability to trouble shoot when things go wrong.

### BASIC PRINCIPLES OF OPERATION OF VHF RADIOS

VHF transmission is **short range**, and limited to **line of sight**. In aviation, VHF is primarily used for VOR (Very High Frequency Omni Range) **radio navigation** and **voice communications**.

VHF is used in air to ground, and air to air communications. The pilot presses the PTT (Press to Talk button) button, and speaks into the microphone. The microphone then converts the sound waves into an electrical signal, which is used to modulate a VHF carrier wave. The modulated carrier wave is then transmitted through the air to the receiver. The receiver then demodulates the received carrier wave, reproducing the original audio signal that was transmitted. Especially when frequency modulated, VHF radio waves are less affected by static, therefore most suitable for voice communications. Although limited in range, this can be enhanced through relay stations which receive the signal, amplify it and then retransmit it.

VOR, which makes use of VHF, is an **aircraft radio navigation system**, which enables aircraft that are equipped with a receiving unit, to determine their position, and stay on course, by receiving radio signals transmitted by a

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