

FCC Regulations for Wireless

Acknowledgements: Developed by Jesus Casas, Faculty of Austin Community College, Austin, Texas

Time Required: 1 hour

Equipment & Tools

- Computer with Internet Connection
- Standard browsing (web surfing) capabilities

Team or Individual: This is an individual activity.

Learning Objectives

1. Use the Internet to locate federal regulations pertaining to wireless transmission.
2. Interpret federal regulations pertaining to AM transmission.
3. Interpret federal regulations pertaining to FM transmission.

Introduction:

The Federal Communications Commission (FCC) is responsible for regulating interstate and international communications by radio, television, wire, satellite, and cable for the United States and all of its possessions. The FCC was established by the Communications Act of 1934. The staff is organized into six operating bureaus. The Wireless Telecommunications Bureau (WTB) oversees cellular and PCS phones, pagers and two-way radios. The FCC rules and regulations are organized and listed in Title 47 of the Code of Federal Regulations (CFR).

Performance and Task Procedures:

1. Use a search engine like Yahoo.com or Google.com to locate the Federal Communications Commission web site.
2. Read over the description of each of the bureaus and offices so that you have a better understanding of the scope of the responsibilities of the FCC.
3. Locate the FCC Rules: CFR Title 47 and click to open the link. Open section 15, Radio Frequency Devices.
4. Use the links to the subsections to complete the table on the next page.

Scoring or Grading Criteria:

The criteria for grading the student, is left to the discretion of the instructor.



	“Home-built” AM Transmitter	“Home-built” FM Transmitter
Specification for signal strength		
Specification for antenna length		
Operating frequencies or range of frequency		