

CLAY COUNTY AUXCOMM

Providing Emergency Communications

“When All Else Fails”



LARRY J. FORD

K4AEC

North Carolina AUXCOMM
Coordinator Clay County

PO Box 750
Hayesville, NC 28904-0750

Telephone: (828) 421-5721

Facsimile: (866) 837-4526

Email: k4aec@arrl.net

CLAY COUNTY AUXCOMM FIELD DAY EDUCATIONAL ACTIVITY LESSON PLAN

Modules

Antennas – Explain to the group what an antenna is, how the frequency affects antenna length, how antenna height affects performance, and typical antenna construction.

Bands - Explain how bands/frequencies are defined and structured. Explain allocation of different types of radio signals within bands; use ARRL Band Plan handout.

Power Sources - Explain the different sources of power, AC vs. DC, use of batteries, solar panels, generators; Explain wiring and conduction of electricity. Explain safety procedures when working with electrical components.

Transmitters – Explain what a transmitter is, what signals it transmits, solid state vs. tubes, how it is connected to an antenna/load, how a transmitter is tuned to a frequency, and the types of transmissions (voice, digital, CW).

General Comments: In explaining the above modules to visitors to the Field Day site, use equipment that has been set-up onsite as examples of the subject being explained.