

Workshop – 2 Meter Yagi Antenna Building

Objective:

This class aimed to equip participants with the skills and knowledge to build a functional 2-meter Yagi antenna using readily available materials like tape measures and PVC pipe, specifically designed for fox hunting activities.



Overview:

Participants learned about the basics of antenna theory, focusing on the Yagi-Uda design, which is highly effective for directionality and gain in radio communication. The Yagi antenna's key components, including the driven element, reflectors, and directors, were discussed, as well as their roles in enhancing signal reception and transmission.

Materials Used:

Tape Measures: Utilized to accurately cut and measure elements of the antenna, ensuring precise lengths for optimal performance.

PVC Pipe: Served as the structural framework for the antenna, providing a lightweight yet sturdy construction. Participants learned about various assembly techniques and methods to ensure durability and stability.



Hands-on Activity:

The class included a practical session where participants collaborated with others to construct or repair their own 2-meter Yagi antennas. Step-by-step instructions guided them through measuring, cutting, and assembling the antennas, fostering teamwork and problem-solving skills.

Application to Fox Hunting:

Participants were introduced to the concept of fox hunting, or radio direction finding, where they could apply their newly crafted antennas. Emphasis was placed on how the directional capabilities of the Yagi antenna can significantly improve hunting efficiency by allowing for better signal reception from hidden transmitters.



Conclusion:

By the end of the class, participants not only mastered the skills needed to build a Yagi antenna but also gained insights into its practical applications in fox hunting. They left with a robust understanding of antenna design principles and hands-on experience, ready to engage in their first fox hunt with confidence.

Next Steps:

Participants were encouraged to test their antennas in real-world scenarios, participate in local fox hunts, and continue exploring advancements in antenna technology for enhanced communication experiences. In our next in person meeting, we plan on scheduling at least one fox hunting event for the month of August to put these new skills to the test.