

Electronics Workshop - June 29, 2017

Time & Location:

7:00 PM

Fire District 6 Training Room, 2123 Jackson Highway, Chehalis, WA

Topics:

1. General Exam Antenna Questions (G9B)
2. Re-purposing TV Antennas
3. Ferrite Cores
4. (Arduino) Frequency Meter

Notes:

1. Lissajous frequency ratio: $f_y / f_x = \text{horizontal line crossings} / \text{vertical line crossings}$
2. If pattern scrolls left, input frequency is higher than trigger frequency;
If pattern scrolls to right, input frequency is lower than trigger frequency.

Reference:

1. General Exam Question Pool: <http://ncvec.org/page.php?id=364>
2. "Recycling TV Antennas for 2-Meter Use":
<http://www.arrl.org/files/file/Technology/tis/info/pdf/9611034.pdf>
3. Ferrite Cores: <http://www.Palomar-Engineers.com/>
<http://www.fair-rite.com/>
4. Lissajous Figures:
<https://www.electrical4u.com/lissajous-patterns-of-cro/>