

Technician Amateur Radio License Class

Saturdays, March 19 to April 30, 2022

1:00 PM to 4:00 PM

via Zoom

David Bern, W2LNX and friends

instructors@marcclub.org

Zoom policy

- waiting room
- mikes are muted
- will record sessions for students in class
- will pause to take questions
 - use Chat box to ask a question goes to host
 - use Raise Hand under Reactions
 - use space bar as push-to-talk (PTT) button

course syllabus and schedule

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https://www.marcclub.org/mweb/education/Technician/syllabus.html

means "show"

agenda

Lesson 1 – <u>Joe, AC3JM</u>:

module 4 – Electricity
 break and demonstration – David, W2LNX

Lesson 2 – Joe, AC3JM:

module 5 - Ohm's Law, Power and the Metric System
 break and demonstration - David, W2LNX

Lesson 3 – Joe, AC3JM:

module 6 - Electronic Components
 break and demonstration - David, W2LNX

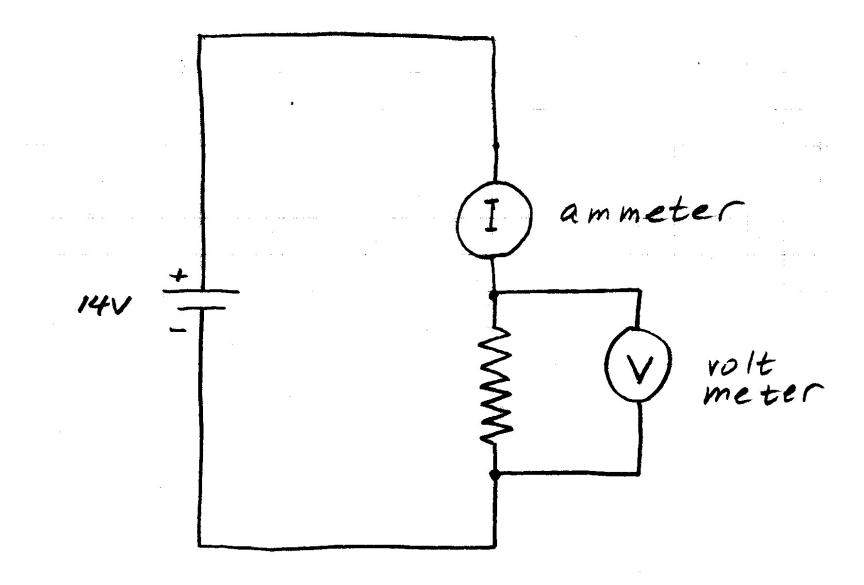
preparing for the Technician test

- take a practice test every day 85% score or better 30 questions correct
 - ARRL Exam Review for Ham Radio™
- study resources

module 4 - Electricity

• HRLM <u>module 4 - Electricity</u>

some demonstration – voltage and current



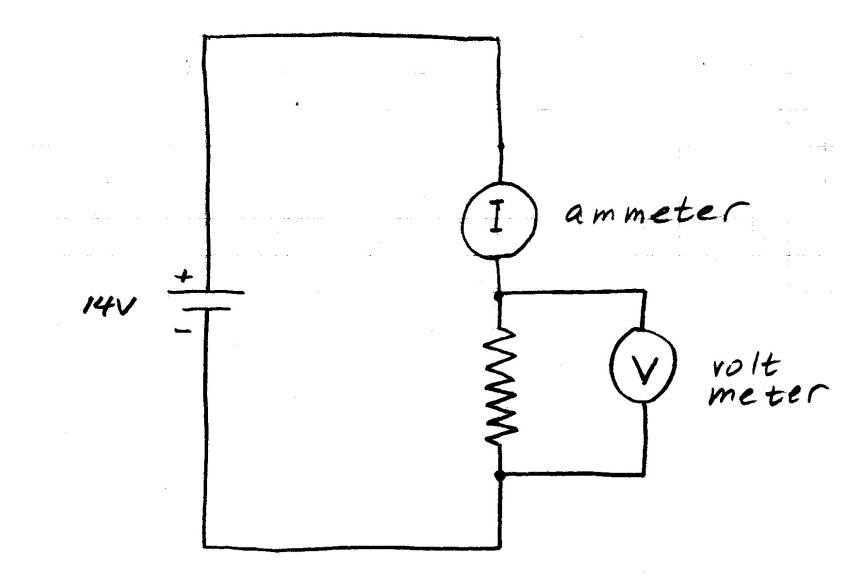
Questions



module 5 - Ohm's Law, Power, and the Metric System

• HRLM module 5 - Ohm's Law, Power and the Metric System

sometion – Ohm's law and power law



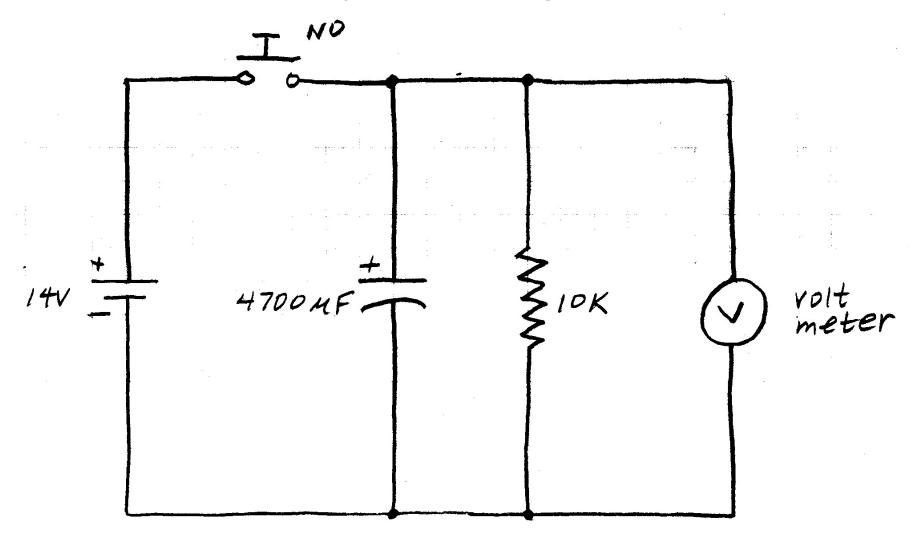
Questions



module 6 - Electronic Components

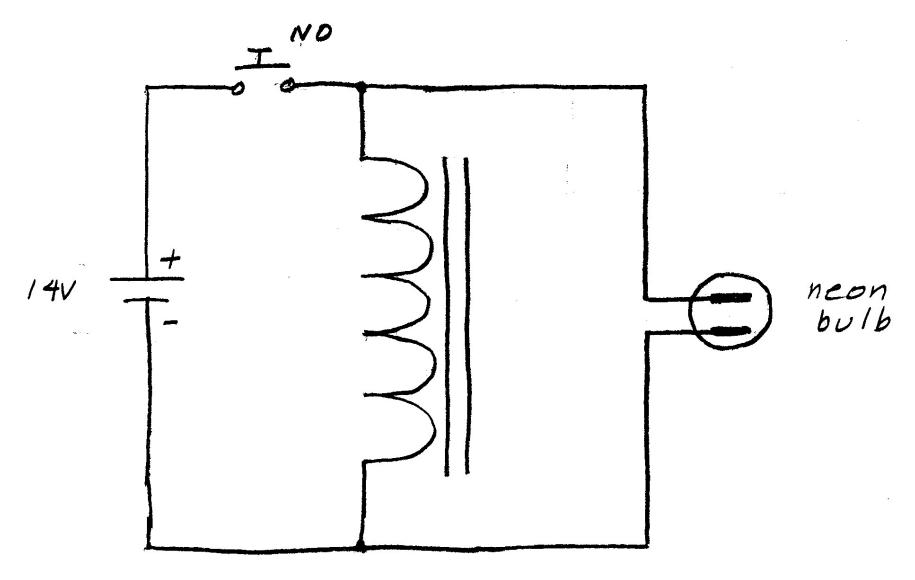
- HRLM <u>module 6 Electronic Components</u>
 - demonstrations David, W2LNX

demonstration – capacitor discharge



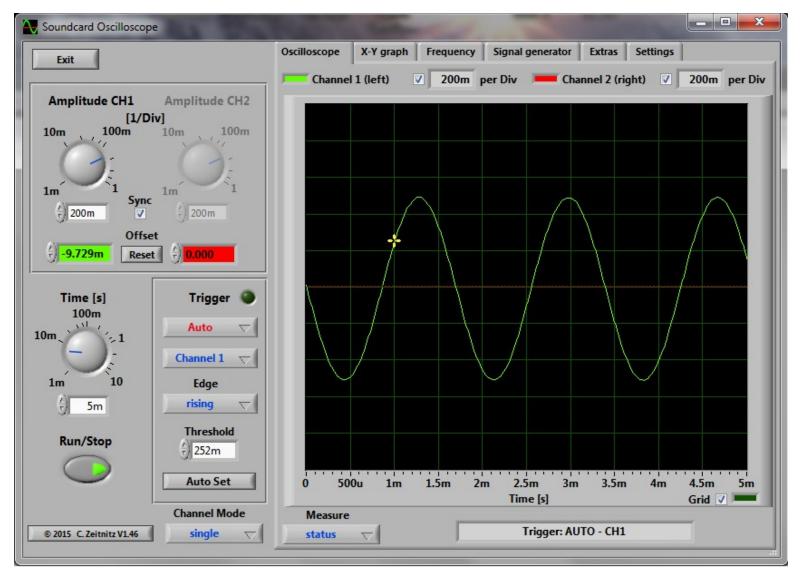
resource: RC Time Constant Calculator

demonstration – inductive discharge



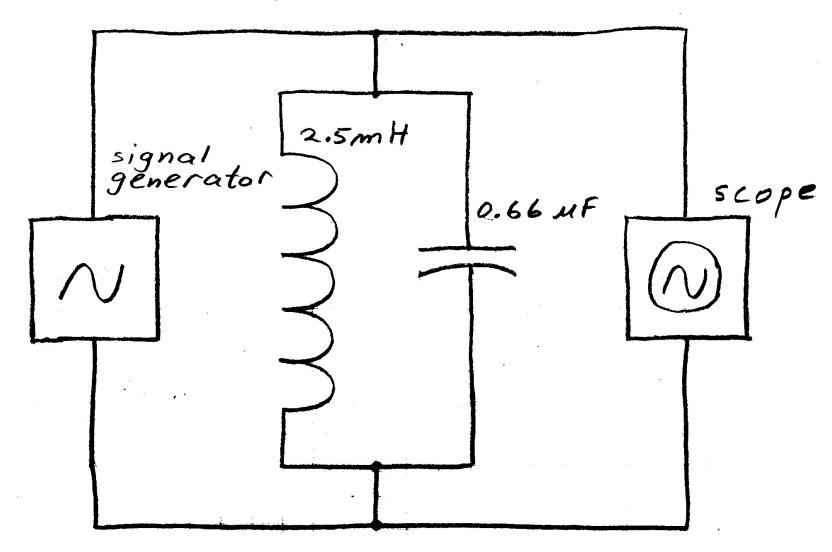
module 6 - Electronic Components

demonstration - frequency, wavelength, amplitude, phase



resource: Soundcard Oscilloscope

demonstration – parallel resonant circuit



resource: LC Tuned Circuit Resonant Frequency Calculator

resource: <u>USB C-Media CM119 sound interface used</u> as an analog-to-digital converter

Questions



homework

- read chapters in HRLM for session 2 for modules 4, 5, 6
 - review test questions for these HRLM chapters using
 ARRL Exam Review for Ham Radio™
- <u>register a Username with the FCC</u> using your email address
 - <u>login and register a new FCC Registration Number (FRN)</u>
 - for yourself an **individual**, not an organization
 - for family members individuals

questions



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