

AVIA 122 Quiz #2 review...

Understand types of batteries (Nickel/Cadmium, Lithium-Ion, Lead-Acid, and Alkaline) and where each type is best utilized.

Understand how to switch electrical circuits (switch, relay, & solenoid) and where each device type is best used.

How are aircraft circuits protected? Which is the best choice, and why?

How should circuit breakers be managed once they trip?

How does an aircraft convert AC into DC? How about DC into AC?

What are the individual circuit types? How can you identify them?

What do the following meters measure?

- Voltmeter
- Ammeter
- Loadmeter

How does an alternator work? How is it powered? How is it controlled?

How does a magneto work? How is it powered? How is it controlled (shut off)?

How does a hydraulic system work?

- How is the power transmitted in a closed system?
- How does an decrease in fluid velocity affect pressure?

How can you identify hydraulic fluid by sight? MIL-H-5606? Skydrol?

What is the difference between a Variable displacement pump and a Constant displacement pump?

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How does a relief valve operate? A Sequence valve? A priority valve? Which of these allow fluid to pass in both directions?

Describe the main gear of a Cessna 182:

How it is constructed?

How do the gear of a Cessna 182RG retract? How are they held up?

How does the warning gear horn work?

Can you identify the types of brakes used in light aircraft? Which brake system is the most common?

What does an over-inflated tire look like? What does an underinflated tire look like?