

3g. Identify safety practices when working with or around electrical power with at least 80% accuracy.

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- Overview
 - Electrical Power Hazards
 - Safety Requirements

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- Hazards

- Electric shock caused by damaged power cables
- Fire caused by short circuits
- Explosions when flammable liquids are exposed to ignition by electrical equipment

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- Safety requirements

- Be familiar with the AGE equipment – know emergency shut-off procedures
- Review the maintenance records
- Do not stand in AGE plane of rotation
- Always perform electrical safe for maintenance

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- Safety requirements
 - Ensure aircraft and/or equipment is grounded
 - Electrical systems shall be de-energized whenever possible
 - If energized – follow sequence of steps
 - Inform other maintenance personnel of actions

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- Safety requirements
 - Popped Circuit Breaker (CB)
 - Do not reset until cause is determined
 - Do not hold in CB
 - Fuel system CB – do not reset without following specific TO guidance
 - Secure aircraft wiring to reduce probability of shorts



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- Safety requirements
 - AGE power units – 10 feet from fuel vent or wing
 - Avoid over-stretching AGE power cables
 - -60 output contacts
 - Connect -60 cable to aircraft prior to energizing contacts
 - De-energize contacts before disconnecting cable from aircraft

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- Safety requirements

- Ensure –60 operating voltages are correct before turning A/C power on

- Power applied to aircraft

- Don't touch bare wires or pins with power on
 - Do not remove or install LRUs with power on
 - Do not perform continuity checks with power on

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- Summary

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Complete exercise 3g