

**KOWALSKI**  
Construction, Inc.

**Corporate Office**  
2219 W. Melinda Ln.  
Building A.  
Phoenix, AZ 85027

Tel. 602.944.2645  
Fax. 602.944.6844

www.kowalski.com  
info@kowalski.com



**Electrical 101 – Circuit Protection - Chapter 10**

**Questions**

1. A Short Circuit is?
  - a) A low resistance path to ground
  - b) An electrical path in a circuit that causes most of the current to flow around or away from the intended path in the circuit
  - c) Both A & B
  - d) Neither A or B
2. Which of these is not a cause of a tripped breaker?
  - a) Short Circuits
  - b) Excessive Loads
  - c) Voltage Drop
  - d) Incorrect Design
3. An advantage of a fuse as opposed to a breaker is that the protection level is not degraded by previous faults?
  - a) True
  - b) False
4. An advantage of a S-Type fuse as opposed to a Screw-in-Base fuse is?
  - a) It has a clear window so you can see when it needs to be replaced.
  - b) It is color coded for amperage identification
  - c) It has individual base sizes for specific amperage
  - d) The sizes are interchangeable
5. Plug adapters can be screwed into standard bases to convert Screw-in-Base fuses to S-Type fuses?
  - a) True
  - b) False



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6. Ferrule-type fuses are rated up to and including 50 amps?
  - a) True
  - b) False (60 amps)
7. \_\_\_\_\_ fuses protect circuits above 60 amps up to 600 amps?
  - a) Non-Renewable
  - b) Renewable
  - c) Blade-knife
  - d) Ferrule
8. Non-Renewable fuses present a higher than normal risk for equipment damage and fires.
  - a) True
  - b) False
9. A Single Element fuse with no intentional time-delay designed into the overload range is called?
  - a) Fast-Acting
  - b) Very Fast-Acting
  - c) Quick Blow
  - d) All of the above
10. A Dual-Element Fuse?
  - a) Provides the same short-circuit current protection as the single-element fuse
  - b) Provides time-delay protection against slow over-currents
  - c) Splits current dividing it between multiple strips of metal
  - d) All of the above

