Unit 5 Electrical Wiring Commercial

Emergency Standby Systems

1. Which section of the CEC deals with generator installation?

2. What is the most efficient and most common method of providing emergency power for lighting in critical areas of public buildings?

3. Is central battery emergency power typically used for large motors?

4. What device is typically installed to protect smaller conductors when they are tapped into larger conductor mains?

5. What is one main advantage of gas and diesel generators?

6. What type of cooling is typically used for small generator?

7. Why is it important to know what motors are connected to a generator system?

8. What is the kVA locked-rotor rating for a 3 HP motor with a “G” code letter? 6.29 kVA

9. What is a derangement signal?

10. Which component starts the process of switching over to emergency power when the main power fails?

11. What has to happen before a transfer switch connects the generator to the load?

12. What are two situations (Check CEC rules mentioned in Fig. 5-10) where emergency supply conductors are permitted in the same enclosure as regular supply conductors?