

## Chapter 6 Outline

A Brief Introduction to Electrical Systems  
System Design and Operating Standards  
System and Equipment Maintenance  
    Electrical Plans  
    Training in Operating and Safety  
    Procedures  
System Components  
    Fuses and Circuit Breakers  
    Distribution Panels and Wiring  
    Electric Motors, Controls, and Drive  
    Elements  
    Electronic Equipment  
    Emergency Power Systems  
    Electrical Maintenance Equipment  
Electric Utility Billing and Building  
    Operations  
    Reading Electrical Utility Meters  
    Checking the Bill for Errors  
    Choosing the Best Rate Schedule  
Electric Utility Deregulation  
Telecommunications Systems  
Appendix

## Competencies

1. Describe briefly various aspects and components of electrical systems, and cite important considerations regarding system design and operating standards. (pp. 196–200)
2. Identify elements of an effective electrical system and equipment maintenance program. (pp. 200–207)
3. Describe electrical system components: fuses and circuit breakers; distribution panels and wiring; electric motors, controls, and drive elements; electronic equipment; emergency power systems; and electrical maintenance equipment. (pp. 207–218)
4. Explain the billing methods of electric utilities, describe how to read electrical utility meters, state why electric bills should be checked for errors, summarize issues involved in deciding on a tariff (rate) for electric service, and discuss electric utility deregulation. (pp. 218–227)
5. Outline briefly important elements of the telecommunications system and the management of that system in hotels today. (pp. 227–230)