

Section/Topic	Hour	Teaching Outline <i>Instructor should:</i>	Learning Objectives <i>Students should be able to:</i>	Text / Resources	Notes
Chapter 2 Unit 9 <i>Electrical Formulas</i> Section 9.0 – 9.4	50	<ul style="list-style-type: none"> Identify the basic components of the electric circuit State some advantages of AC over DC especially in respect to power transmission and distribution List the best electrical conductors in order Discuss all contributing factors in determining overall resistance in a circuit 	<ul style="list-style-type: none"> Understand components of electrical circuits Explain both types of current, direct and alternating State in order the best conductors of electricity 	<ul style="list-style-type: none"> Text <i>Basic Electrical Theory</i> Presentation <i>Chapter 2, Unit 9</i> Video <i>Electrical Fundamentals and Basic Electricity</i> Additional Resources NEETS Module 1 	
Chapter 2 Unit 9 <i>Electrical Formulas</i> Section 9.5 – 9.13	51	<ul style="list-style-type: none"> Discuss Ohm's Law in DC and AC Circuits Instruct students on the proper use of the power wheel for calculating circuit values Explain aspects of power in relation to losses, cost, and voltage 	<ul style="list-style-type: none"> Demonstrate a mastery of utilizing the power wheel to calculate unknown values for given circuits 	<ul style="list-style-type: none"> Text <i>Basic Electrical Theory</i> Presentation <i>Chapter 2, Unit 9</i> Video <i>Electrical Fundamentals and Basic Electricity</i> Additional Resources NEETS Module 1 	
Chapter 2 Unit 9 <i>Electrical Formulas</i> Review & Quiz	52.5	<ul style="list-style-type: none"> Take this time to review the unit using the unit summary Direct students to take the unit quiz online 	<ul style="list-style-type: none"> Successfully pass the unit exam within the program completion requirements 	<ul style="list-style-type: none"> Text <i>Basic Electrical Theory</i> Presentation <i>Chapter 2, Unit 9</i> Service Mike Holt's Online Testing Service 	