

## Task Title: Interpret documents to Find Electrical Information

### OALCF Cover Sheet – Practitioner Copy

**Learner Name:** \_\_\_\_\_

**Date Started:** \_\_\_\_\_

**Date Completed:** \_\_\_\_\_

**Successful Completion:** Yes ☐ No ☐

**Goal Path:** Employment ☒ Apprenticeship ☒

Secondary School ☐ Post Secondary ☐ Independence ☐

**Task Description:** Learner will interpret diagrams and read tables that are commonly used by electricians to plan their work.

#### Main Competency/Task Group/Level Indicator:

- Find and Use Information/Interpret documents/A2.2

#### Materials Required:

- Pen/pencil and paper and/or digital device

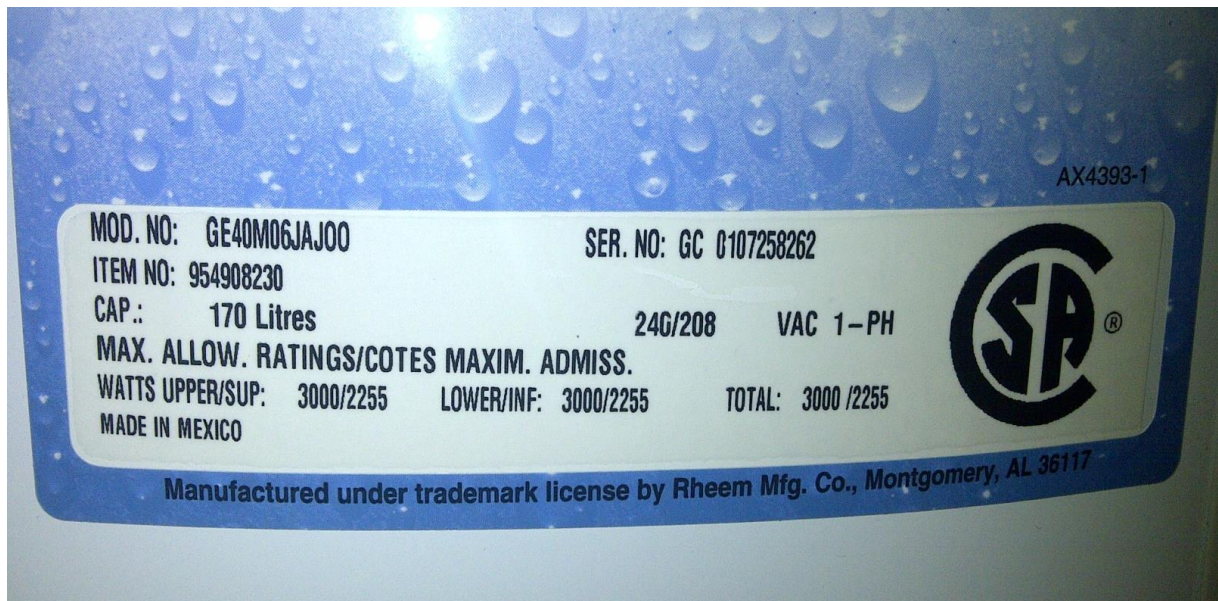
Task Title: FindElectricalInformation\_EA\_A2.2

### Learner Information

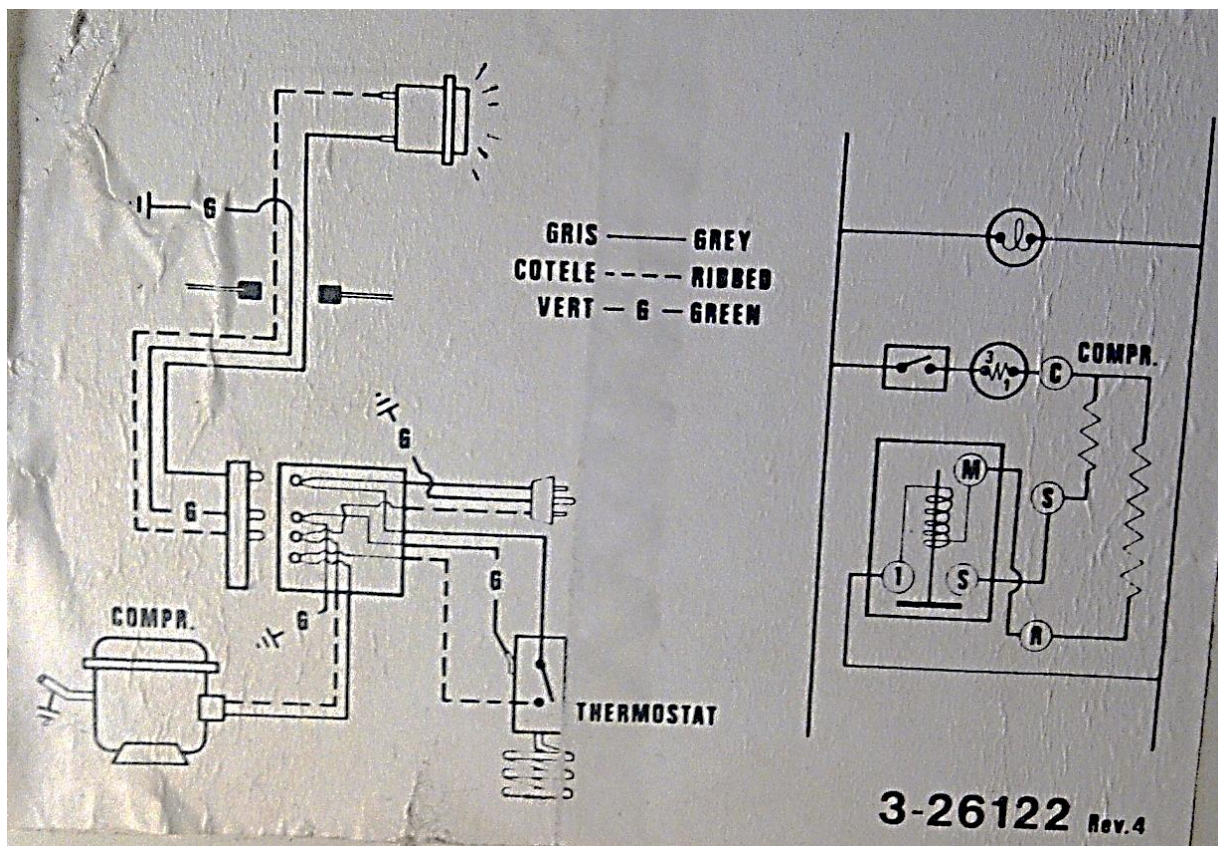
Electricians interpret diagrams and read tables to plan work and complete tasks.

Scan the "Hot Water Tank Label", "Electrical Schematic", and "Cable Chart".

## Hot Water Tank Label



## Electrical Schematic



### Cable Chart

Code	No. of Wires	Uses
#14-2	2 w/gnd	general lighting and receptacles
#14-3	3 w/gnd	3-way switches, split receptacles
#12-2	2 w/gnd	kitchen and bath circuits
#12-3	3 w/gnd	3-way switches on 20 amp services
#10-3	3 w/gnd	Dryers, cook top ovens
#4		70 amp services, 100 amp neutral conductor
#2		main conductor for 100 amp services

Code: Gauge – number of wires. For example, #14-2 means 2 14 gauge wires.

Note: w/gnd means 'with ground wire'. In these cases, the ground wire is not included in the wire count

## Work Sheet

**Task 1: Circle, underline, or highlight the upper allowable wattage rating on the Hot Water Tank Label. If you are doing this task online, write the answer below.**

Answer:

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**Task 2: On the Electrical Schematic, how many wires are required for the thermostat to function?**

Answer:

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**Task 3: Use the Cable Chart to determine the minimum requirements. Identify the cable by its code.**

**a) The cable to supply a dryer.**

Answer:

**b) The cable to provide 100 amp service to a home.**

Answer:

**c) The 3-wire cable that is required to connect 2 switches (one on main floor and the other on the second) to a light over the stairs.**

Answer:

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## Answers

**Task 1: Circle, underline, or highlight the upper allowable wattage rating on the Hot Water Tank Label. If you are doing this task online, write the answer below.**

Answer: 3000/2225

**Task 2: On the Electrical Schematic, how many wires are required for the thermostat to function?**

Answer: 3

**Task 3: Use the Cable Chart to determine the minimum requirements. Identify the cable by its code.**

**a) The cable to supply a dryer.**

Answer: #10-3

**b) The cable to provide 100 amp service to a home.**

Answer: #2

**c) The 3-wire cable that is required to connect 2 switches (one on main floor and the other on the second) to a light over the stairs.**

Answer: #14-3



### Performance Descriptors

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
A2.2	performs limited searches using one or two search criteria			
	extracts information from tables and forms			
	uses layout to locate information			
	makes low-level inferences			

This task: Was successfully completed ☐ Needs to be tried again ☐

Learner Comments:

Instructor (print):

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Learner (print):

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