



**Task Title: Interpret documents to Find Electrical Information**

OALCF Cover Sheet – Learner 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

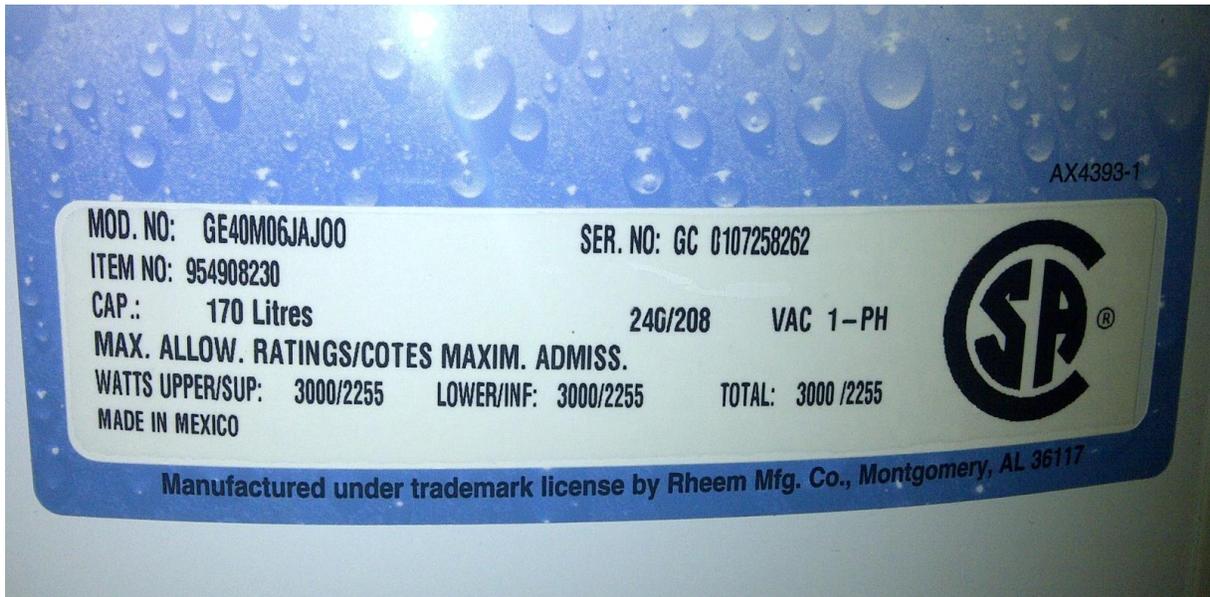
Task Title: FindElectricalInformation\_EA\_A2.2

## Learner Information

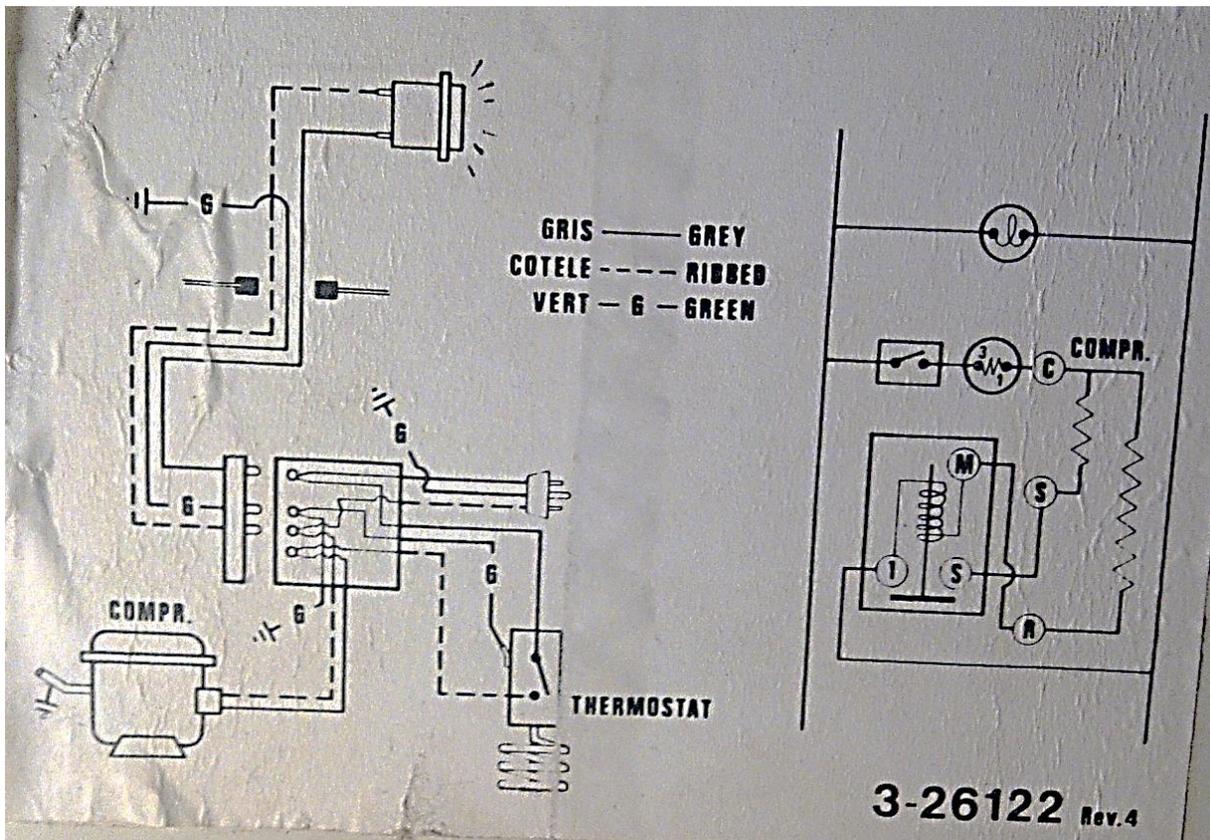
Electricians interpret diagrams and read tables to plan work and complete tasks.

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

### Hot Water Tank Label



### Electrical Schematic



### Cable Chart

<b>Code</b>	<b>No. of Wires</b>	<b>Uses</b>
#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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