

Task Title: Furnace Features

# OALCF Cover Sheet – Practitioner Copy

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

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

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

|  |  |  |
| --- | --- | --- |
| **Goal Path:** | Employment | Apprenticeship |
| Secondary School | Post Secondary | Independence |

**Successful Completion:**  Yes No

**Task Description:** The learner will locate information in a manual to learn about the features of a furnace.

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

* Find and Use Information/Interpret documents/A2.2
* Use Digital Technology/D.1

**Materials Required:**

* Pen/pencil and paper
* Computer with word processing program (e.g. Microsoft Word or Google Docs)
* Access to the internet

# Learner Information

HVAC apprentices often conduct research on different equipment. It is important to understand the features of a furnace or air conditioner, for example, so you can explain and recommend products to customers.

Locate the Lennox EL180DFE Product Specifications Manual at:

<https://tech.lennoxintl.com/C03e7o14l/VIu12Ch2uV/ehb_el180dfe_1904.pdf>

# Work Sheet

**Scan the “Features” section on page 2.**

**Task 1: What are six features of this heating system? Copy them into a Microsoft Word document or Google Doc. Give your document a title. Show your completed document to your instructor.**

Answer: No written response required here.

Task completed: Yes:

**Scan the “Optional Accessories” section on page 4.**

**Task 2: In a new Word or Google document, list five features of the “iComfort E30 Smart Wi-Fi Thermostat”. Give your document a title. Show your completed document to your instructor.**

Answer: No written response required here.

Task completed: Yes:

**Scan the “Gas Heat Accessories” chart on page 6.**

**Task 3: In a new Word or Google document, list four types of kits you may need to install this furnace. Give your document a title. Show your completed document to your instructor.**

Answer: No written response required here.

Task completed: Yes:

# Answers

**Scan the “Features” section on page 2.**

**Task 1: What are six features of this heating system? Copy them into a Microsoft Word document or Google Doc. Give your document a title. Show your completed document to your instructor.**

Answer: Learner document should be titled “Furnace Features for Lennox EL18ODFE Elite Series” or something similar.

Features can include any six of the following:

* Lennox Duralok Heat Exchanger Assembly
* Inshot Burners
* SureLight Hot Surface Ignitor
* Gas Control Valve
* Combustion Air Inducer
* Flame Rollout Switch

The learner may also choose to include information about some or all of these features.

**Scan the “Optional Accessories” section on page 4.**

**Task 2: In a new Word or Google document, list five features of the “iComfort E30 Smart Wi-Fi Thermostat”. Give your document a title. Show your completed document to your instructor.**

Answer: Learner document should be titled “iComfort E30 Smart Wi-Fi Thermostat Features for Lennox EL18ODFE Elite Series” or something similar.

Features can include any five of the following:

* Wi-Fi enabled, electronic 7-day, universal, multi-stage, programmable, touchscreen thermostat.
* 3 Heat/2 Cool.
* Auto-changeover.
* Controls dehumidification during cooling mode and humidification during heating mode.
* Offers enhanced capabilities including humidification / dehumidification / dewpoint measurement and control, Humiditrol® control, and equipment maintenance reminders.
* Easy to read 7 in. color touchscreen (measured diagonally).
* LCD display with backlight shows the current and set temperature, time, inside relative humidity, system status (operating mode and schedules) and outside temperature (optional outdoor sensor required).
* Smooth Setback Recovery starts system early to achieve setpoint at start of program period.
* Compressor short-cycle protection (5 minutes).
* Up to four separate schedules are available plus Schedule IQ™.
* One-Touch Away Mode - A quick and easy way to set the cooling and heating setpoints while away.
* Smart Away™ - Uses geo-fencing technology to determine when the homeowner is within a predetermined distance from the home to operate the system when leaving, away and arriving.
* Apple HomeKit™ enabled, making it easy to control the E30 thermostat from an iPhone, iPad or iPod device.

**Scan the “Gas Heat Accessories” chart on page 6.**

**Task 3: In a new Word or Google document, list four types of kits you may need to install this furnace. Give your document a title. Show your completed document to your instructor.**

Answer: Learner document should be titled “Conversion Kits for Lennox EL18ODFE Elite Series” or something similar.

High Altitude Pressure Switch Kit, Natural Gas to LPG/Propane Kit, LPG/Propane to Natural Gas Kit, Natural Gas High Altitude Orifice Kit.

# 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 connections between parts of documents |  |  |  |
|  | Makes low-level inferences |  |  |  |
| D.1 | Follows simple prompts |  |  |  |
|  | Follows apparent steps to complete tasks |  |  |  |
|  | Interprets brief text and icons |  |  |  |
|  | Locates specific functions and information |  |  |  |



This task: Was successfully completed Needs to be tried again

Learner Comments:

Instructor (print): Learner (print):

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