



Task Title: Furnace Features

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: 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

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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.

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- 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

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Learner Comments:

Instructor (print):

Learner (print):
