Literacy Northwest
Regional Literacy & Basic Skills Network

Developing OALCF Apprenticeship Tasks for the Competency "Use Digital Tasks" (2014/2015)

Task-based Activity Cover Sheet

Task Title: Refrigeration and Air Conditioning Installation

Learner Name:
Date Started: **Date Completed:**
Successful Completion: Yes___   No___
Goal Path: Employment___ Apprenticeship_✓_ Secondary School___ Post Secondary ___ Independence___
Task Description: Understand how to use the internet to search, locate, and use information related to safe product installation.

Competency:	Task Group(s):
A: Find and Use Information	A1: Read continuous text
B: Communicate Ideas and Information	A2: Interpret Documents
C: Understand and Use Numbers	B2: Write continuous text
D: Use Digital Technology	C4: Manage data
E: Manage Learning	

Level Indicators:
A1.2:   Read texts to locate and connect ideas and information
A2.3:   Interpret somewhat complex documents to connect, evaluate and integrate information
B2.1:   Write brief texts to convey simple ideas and factual information
C4.1:   Make simple comparisons and calculations
D.2:   Perform well-defined, multi-step digital tasks
D.3:   Experiment and problem-solve to perform multi-step digital tasks

Performance Descriptors: see chart on last page

Materials Required:
• Computer with internet access • Valid e-mail address • Pencil or pen

Developing OALCF Apprenticeship Tasks for the Competency "Use Digital Tasks" (2014/2015)

Task Title: Refrigeration and Air Conditioning Installation

Refrigeration and Air Conditioning mechanics routinely read a variety of installation, repair, and maintenance manuals. Mechanics may also use the internet to visit manufacturers' websites to access recent technical service bulletins, recall notices, frequently asked questions and specifications.

Look at the Lennox XC25 installation manual found at
http://www.hvacpartsshop.com/manuals/XC25%20SERIES.pdf

Learner Information and Tasks:

Task 1:   List the two different dimensions between the XC25-036 and the XC25-048.

Task 2:   What is the liquid line diameter for a XC25-060 with a line size of 3/8" and total linear length of 75 feet?

Task 3:   When testing for leaks, how much is a trace amount of HFC-410A?

Task 4:   When working with the route control wires, where does the low voltage wiring enter through?

Task 5:   Search the internet for the "**advantages of online manuals**". What feature in online manuals can mechanics use to quickly find answers to their problems?
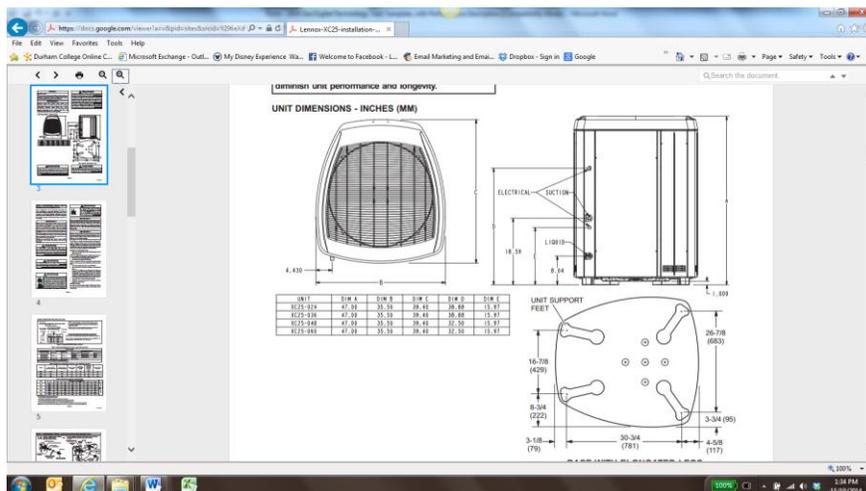
Developing OALCF Apprenticeship Tasks for the Competency "Use Digital Tasks" (2014/2015)

Task Title: Refrigeration and Air Conditioning Installation

Answer Key

Task 1:   XC25-036 "Dim D" is 38.88 inches
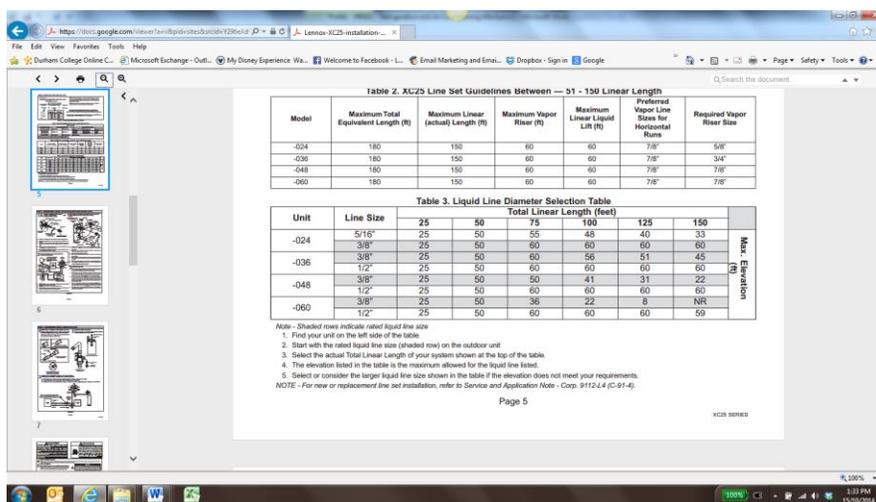
              XC25-048 "Dim D" is 32.50 inches

Page 3

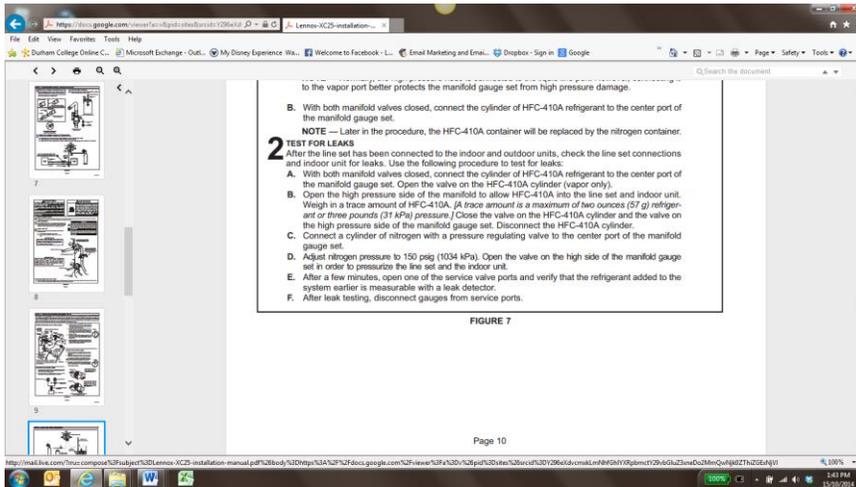Image as of October 2014

Task 2:   36

Page 5

Developing OALCF Apprenticeship Tasks for the Competency "Use Digital Tasks" (2014/2015)
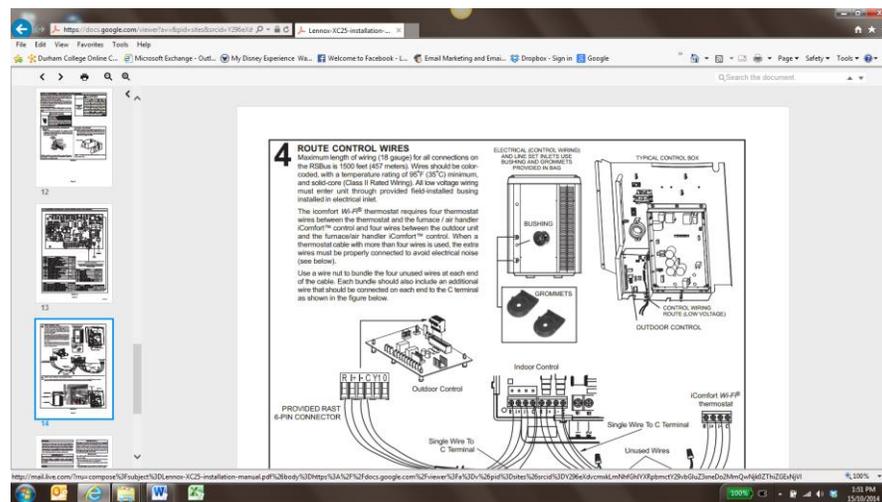
Image as of October 2014

Task 3:   A trace amount is a maximum of two ounces (57 g) refrigerant or three pounds (31 kPa) pressure.

Page 10 (2.B)

Image as of October 2014

Task 4:   All low voltage wiring must enter the unit through provided field-installed busing installed in electrical inlet.

Page 14 (text in top left corner)

Image as of October 2014

Developing OALCF Apprenticeship Tasks for the Competency "Use Digital Tasks" (2014/2015)

Task 5:

Possible URL source for answers:
http://www.techcommunicators.com/emanuals/wrm/chap01/01-04_online.htm

- They can be searched quickly using either the table of contents, index, or internal cross-references. These features use the ability to link from one place to another in a manual.

Developing OALCF Apprenticeship Tasks for the Competency "Use Digital Tasks" (2014/2015)

Task Title: Refrigeration and Air Conditioning Installation

	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
A1.2	• Scans text to locate information			
	• Locates multiple pieces of information in simple texts			
	• Reads more complex texts to locate a single piece of information			
	• Makes low level inferences			
A2.3	• performs complex searches using multiple search criteria			
	• manages unfamiliar elements (e.g. vocabulary, context, topic) to complete tasks			
	• integrates several pieces of information from documents			
	• uses layout to locate information			
	• identifies the purpose and relevance of documents			
	• makes inferences and draws conclusions from information displays			
	• identifies sources, evaluates and integrates information			
B2.1	• writes simple texts to request, remind or inform			
	• conveys simple ideas and factual information			
	• demonstrates a limited understanding of sequence			
	• uses sentence structure, upper and lower case and basic punctuation			

Developing OALCF Apprenticeship Tasks for the Competency "Use Digital Tasks" (2014/2015)

C4.1	• recognizes values in number and word format			
	• identifies and compares quantities of items			
	• understands numerical order			
D2	• selects and follows appropriate steps to complete tasks			
	• locates and recognizes functions and commands			
	• makes low-level inferences to interpret icons and text			
	• begins to identify sources and evaluate information			
	• performs simple searches using keywords (e.g. internet, software help menu)			
D3	• manages unfamiliar elements (e.g. vocabulary, context, topic) to complete tasks			
	• makes inferences to interpret icons and text			
	• selects appropriate software when required by the task			
	• identifies sources, evaluates and integrates information			

This task: was successfully completed___   needs to be tried again___

Learner Comments

_____   _____

Instructor (print)   **Learner Signature**