



Task Title: Use Roofing Estimator

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:

Use a roofing estimator to find information to calculate the amount of roofing supplies to order.

Main Competency/Task Group/Level Indicator:

- Find and Use Information/Interpret documents/A2.3
- Use and Understand Numbers/Use measures/C3.3

Materials Required:

- Pen & Paper and/or digital device
- Calculator (optional)

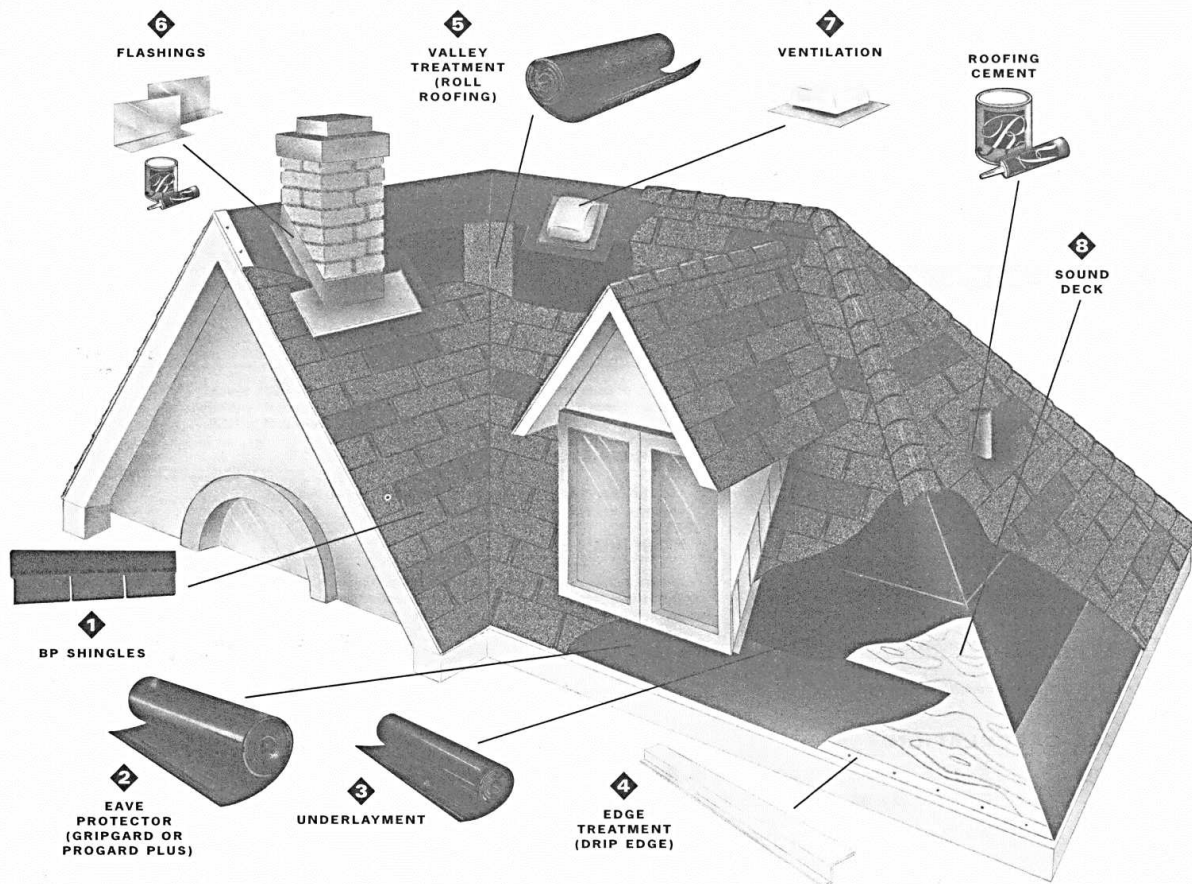
Task Title: Use Roofing Estimator_A_A2.3_C3.3

Learner Information

A Roofing Estimator can be used to calculate the amount of roofing supplies to order. Scan the BP Quick Roofing Estimator.

BP QUICK ROOFING ESTIMATOR

THE ELEMENTS OF A PREMIUM ROOF SYSTEM



1 BP SHINGLES
Shingles determine the ultimate longevity of the roof.

2 EAVE PROTECTOR
Waterproofing Membrane (Gripgard or Progard Plus) provides necessary protection against winter freeze / thaw cycles.

3 UNDERLAYMENT
Sheds water that may be driven under the shingles by high winds.

4 EDGE TREATMENT
For efficient water shedding at the roof's edge.

5 VALLEY TREATMENT
Stops damage due to snow and ice build-up.

6 FLASHINGS
Protect areas vulnerable to leaks: skylights, vents, chimneys, etc.

7 VENTILATION
The building code requires all roof structures be provided with proper ventilation.

8 SOUND DECK
To have a solid foundation, a solid deck is essential.

HELPFUL TOOLS AND MATERIALS CHECK LIST

- | | | | | |
|---|---|---|---------------------------------------|------------------------------------|
| ☐ 25' Tape measure | ☐ Extension Ladder | ☐ Knee pads | ☐ Chalk Line | ☐ Tin Snips |
| ☐ Shingle Knife | ☐ Hammer Tacker | ☐ Regular Hammer | ☐ Caulking Gun | ☐ Airgun |
| ☐ Nail Apron | ☐ Roofing Nails | ☐ Eavestroughing | ☐ Gloves | |

EMCO
BUILDING PRODUCTS CORP.

1 800 567-2726

Web sites: www.emcobp.com www.dreamroofs.com

Task Title: Use Roofing Estimator_A_A2.3_C3.3

E A S T		MATERIALS ESTIMATOR		COST ESTIMATOR	
ARCHITECTURAL SHINGLES					
ECLIPSE	COVERAGE (SQ. FT.) / Bundle:	25			
EVEREST FIBERGLASS		33.3			
HARMONY FIBERGLASS		33.3			
EUROPA		32.3			
ROOFMASTER		32.3			
MIRAGE		32.3			
3-TAB SHINGLES					
TRADITION	COVERAGE (SQ. FT.) / Bundle:	32.3			
YUKON FIBERGLASS		32.3			
RAMPART		32.3			
DAKOTA FIBERGLASS		32.3			
CITADEL		32.3			
WEATHER-TITE		32.3			
INTERLOCKING SHINGLES					
TITE-LOK	COVERAGE (SQ. FT.) / Bundle:	32.3			
NOTE: Valleys may require additional material.					
SHINGLE CALCULATION					
HIP ROOF: Add $[(A + C) \div 2] \times E = \text{sq. ft.} \div \text{no. sq. ft./bdl.} = \text{no. of bdl. for each side.}$ $0.5 \times B \times D = \text{sq. ft.} \div \text{no. sq. ft./bdl.} = \text{no. of bdl. for each end.}$		no. of bdl. x cost per bdl. = \$			
GABLE ROOF: $A \times B = \text{sq. ft.} \div \text{no. sq. ft./bdl.} = \text{no. of bdl. for each side.}$					
To allow for starter strip, hips, ridges and waste add 15% to Hip roof type, and 10% for Gable roof type.					
<i>*see above for coverage / bundle</i>					
			HIP STYLE		GABLE STYLE
			TOTAL MATERIAL COST \$		\$

ORE 3491.2005-03-EE

Work Sheet

Task 1: What is the purpose of Valley Treatment?

Answer:

Task 2: How many types of 3-Tab Shingles are listed?

Answer:

Task 3: Locate the Shingle Calculation section on the Estimator. Using the information in the table below, calculate the number of square feet of 1 side of the roof represented in this table.

Hip Roof/house Part A	32 ft
Part B	18 ft
Part C	14 ft
Part D	10 ft
Part E	10 ft

Answer:

Task Title: Use Roofing Estimator_A_A2.3_C3.3

Task 4: Using your calculation in Task 3, calculate how many bundles of 3-Tab shingles will be needed.

Answer:

Task 5: If Citadel shingles cost \$16.97/bundle, calculate the cost of 11 bundles.

Answer:

Answers

Task 1: What is the purpose of Valley Treatment?

Answer: to stop damage due to snow and ice buildup

Task 2: How many types of 3-Tab Shingles are listed?

Answer: 6 types of shingles

Task 3: Locate the Shingle Calculation section on the Estimator. Using the information below, calculate the number of square feet on the roof represented in this table.

Hip Roof/house A	32 ft
B	18 ft
C	14 ft
D	10 ft
E	10 ft

Answer:

$[(A + C) / 2] \times E =$ sq. feet of roof

$[(32 + 14) / 2] \times 10 =$

230 sq. ft.

Task Title: Use Roofing Estimator_A_A2.3_C3.3

Task 4: Using your calculation in Task 3, calculate how many bundles of shingles will be needed. If necessary, explain your answer.

Answer:

230 sq. ft. / 32.3 sq ft. per bundle = 7.12 bundles. Since bundles are sold intact, the answer is 8 bundles. *** The answer is correct if the participant used a different number of sq. ft, if they used their answer from Task 3 and did the calculation correctly in Task 4.

*** 8 bundles

Task 5: If Citadel shingles cost \$16.97/bundle, calculate the cost of 11 bundles.

Answer:

\$186.67

Task Title: Use Roofing Estimator_A_A2.3_C3.3

Performance Descriptors

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
A2.3	Uses layout to locate information			
A2.3	Manages unfamiliar elements to complete tasks			
C3.3	Understands and uses formulas for finding ...volume			

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

Learner Comments:

Instructor (print):

Learner (print):
