

LESSON PLAN

Program Title: BUILDING TRADES

Course Title: MASONRY 94

Lesson Title: INTRODUCTION TO THE ART OF STONE MASONRY

Lesson No. 1

Terminal Objective: Students should learn the three vital areas and their dependence of each area to the other and themselves to the art of stone masonry.

Enabling Objectives: 1. Students will learn safety, use, and identity of seven basic stone tools; demonstrate their use, and compile a cost list of them.

2. Characteristics of three different types of stone will be learned and compared. The weights will be compared and students will rank stones from greatest to least.

3. From overheads of mortar and joints, students will learn appearance, practicality, and labor intensity of each.

Equipment:

1. stone tools
2. overhead and overheads
3. recorder and tape
4. samples

References: Overheads

INTRODUCTION: GOOD THINGS COME IN 3 – tsm “teasem” tools, stones, mortar

1. CAVE MAN ART: STONES, JOINTS, TOOLS – not cave Party
2. What is a compliment? student
 - a. enhances
 - b. supports
 - c. draws attention to

BODY:

1. TOOLS: “SUI”! art of calling pigs
 - S-Safety
 - U-Use
 - I-Identify
 - a. glasses
 - b. gloves
 - c. chisel-cuts stone 2 ways
 - d. pitching tool- “WILD PITCH” – H/P –DOA- DA abbreviations
 - e. stone hammer – flying pcs. – hands – loaded gun
 - f. strikers – flat, convex concave – glasses fling mortar
 - g. SPECIAL ATTENTION: pregnant, hand-eye coordination, vision

h. List each tool and after each write one sentence explaining one danger of using or not using each of the above tools

M – 2.4.11 E

2.6.11 B

RWSL-1.4.11 C

“TWO MUST BECOME ONE” tape comparisons no doubt about I

2. STONES – “MAO”! art sub shop

A. M = mountain – all natural

1. faced/unfaced
2. colors-art
3. hardness
4. thickness-6”-9”

B. A= Appalachian – not natural

1. completely man-made
2. no facing necessary
3. multi color
4. mortar adhesive – 1”-1 ½” thick

C. O = Ohio – Semi natural

1. Natural cut from ground
2. Soft
3. Must face
4. Multi color
5. 4-6 inches

D. Activity – In pairs, picks one stone of similar size of each type and weigh them on a scale. Determine the difference in weight of each stone and rank them from heaviest to lightest. Also, in writing, describe the appearance of each stone.

M-2.3.11.AC

3. MORTAR – CFR – SEE FAR, VISION ART

A. C=Convex – art work, time consuming, may break

B. F=Flush-seals, semi outlining, strong

C. R=Recessed – seals of, freezing, dirt

D. Activity – List 3 natural conditions that affect each joint and explain which joint you believe to be most economical and durable.

RWSL 1.4.11 A+B

OVERHEAD

CONCLUSION: OF THE THREE ELEMENTS OF STONE MASONRY WHAT DO I WANT YOU TO REMEMBER AS AN INTRODUCTION. “LETS PLAY BINGO”

GAME=TSM=tools, stone, masonry

1. Under the “T” – SUI

S=safety

U=use

I=identify

2. Under the “S” – MAO

M=mountain

A=Appalachian

O=ohio

3. Under the "M" – CFR

C=convex

F=flush

R=recessed

4. Bonus call – what labor union would represent the above skills.