ADVANCED BRICKLAYING TECHNIQUES  
Course Syllabus

Course Number: ARCO-0666  
OHLAP Credit: No  
OCAS Code: None  
Course Length: 90 Hours  
Career Cluster: Architecture & Construction  
Career Pathway: Construction  
Career Major(s): Masonry

Pre-requisite(s): This course is an introduction to skills required by the mason to construct walls, arches, and other masonry structures. All safety requirements will also be addressed as they apply to masonry work.

Textbooks:
- Brick and Block Masonry by Curriculum and Instructional Materials Center, Oklahoma Department of Career Tech (1999)
- Fundamentals of Bricklaying by Curriculum and Instructional Materials Center, Oklahoma Department of Career Tech (1999)

Course Objectives:

A. Demonstrate Advanced Laying Techniques.
1. Recognize the structural principles and fundamental uses of basic types of walls.¹
2. Recognize the requirement for, and function of, control joints and expansion joints.¹
3. Construct various types of walls using proper reinforcement, jointing, and bonding techniques.¹
4. Construct specialty structures such as manholes, segmented block walls, and screens.¹
5. Identify and explain the different types of masonry arches used today.¹
   a. Identify types of arches.²
   b. Exhibit understanding of arch applications.²
5. Construct a semicircular and jack arch.¹

¹ NCCER objective
² NOCTI objective
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Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures:
1. Students are graded on theory and shop practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.

Description of Classroom, Laboratories, and Equipment: Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit: The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility: The student must maintain a grade point average of 2.0 or better.