METAL WORK IN MASONRY
Course Syllabus

Course Number: ARCO-0665
OCAS Code: None
Course Length: 30 Hours
Career Cluster: Architecture & Construction
Career Pathway: Construction
Career Major(s): Masonry

Pre-requisite(s):
Course Description: This course is an introduction to the masons’ use of various metal components, including metal rods, joint reinforcements, plates, anchors, fasteners, and hollow metal frames for doors and windows and how they are installed.

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. Explain Metal Work in Masonry.
1. Describe the uses and installation of vertical reinforcement.¹ ²
2. Describe the uses and installation of different types of horizontal joint reinforcements and ties.¹ ²
3. Describe the uses and installation of different anchors, fasteners, and embedded items.¹ ²
4. Describe the installation of hollow metal frames.¹ ²
5. Describe the functions and installations of sills and lintels.¹ ²
   a. Identify and position various types of lintels.³

¹ ODCTE objective
² NCCER objective
³ NOCTI objective

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.