Alabama Department of Postsecondary Education

Representing the Alabama Community College System

STATEWIDE CAREER/TECHNICAL EDUCATION COURSE ARTICULATION REVIEW MINUTES

Articulation Agreement Identifier: MAS 131 (2009-1) Identifier is the postsecondary course prefix followed by Plan-of-Instruction version number (e.g.; INT 100 (2007-1)).

Applicable CIP code(s): 46.0101

Postsecondary course prefix, number, and title: MAS 131 Brick / Block Masonry Fundamentals II

Secondary Education course(s) title and number: 431402/430041 - Residential Masonry I + 431403/430042 - Residential Masonry II

Date of Review: February 11, 2010 DPE Annual Review: March 8, 2012

Effective date: **Fall Semester 2011.**

Course Content Analysis (all postsecondary course objectives must be sufficiently addressed in the secondary courses):
Notes:

1 **Skills and knowledge contained in the postsecondary course objectives must be present in the corresponding secondary objectives for a "match" to occur.**
2. **Postsecondary and Secondary objectives must reflect similar content and performance levels before the course articulation agreement will be recommended to the TEDAC Oversight Committee.**
3. **More than one Secondary course may be used in order to articulate to a Postsecondary course.**

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Postsecondary Course Objectives	Secondary Objectives and Location(s)	TEDAC Comments
Module A SAFETY **PROFESSIONAL COMPETENCIES** A1.0 Use safe work practices in the shop and on the work site. A2.0 Value shop and work site safety. **PERFORMANCE OBJECTIVES** A1.1 Demonstrate the safe use of various masonry tools, related equipment, and protective attire. A2.1 This competency is measured throughout the course. **LEARNING OBJECTIVES** A1.1.1 Describe the safe use of various masonry tools. A1.1.2 Describe how to safely use various pieces of equipment. A1.1.3 Explain the appropriate wear of personal protective equipment. A1.1.4 Describe the dangers of horseplay in the shop or on the work site. A1.1.5 Explain various advantages of keeping a clean shop. A1.1.6 Identify an MSDS and explain the contents.	**Residential Masonry II, Unit 1, Safety Content Standard** 1. Apply Safety rules, regulations, and procedures for residential masonry construction. **Learning Objectives** 1. Explain the role that safety plays on the job-site. 2. Explain the appropriate safety precautions to take around common job-site hazards. 3. Demonstrate the use and care of appropriate personal protective equipment (PPE). 4. Properly don and remove personal protective equipment (safety goggles, hearing protection, hard hat, and personal fall protection). 5. Explain the importance of Hazard Communications (HazCom) and material safety data sheets (MSDSs). 6. Describe fire prevention and firefighting techniques. 7. Define safe work procedures to use around electrical hazards. 8. Demonstrate correct selection and use of electrical and hand tools.	

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Module B LAYING WALLS **PROFESSIONAL COMPETENCIES** B1.0 Lay a masonry corner and wall according to specifications. **PERFORMANCE OBJECTIVES** B1.1 Layout various specified projects. B1.2 Build a corner. B1.3 Lay bricks and blocks to the line. **LEARNING OBJECTIVES** B1.1.1 Describe the importance of properly setting up and laying out a wall. B1.1.2 Explain how to insure that the wall is properly laid out. B1.1.3 Explain various considerations when reviewing working drawings prior to layout. B1.1.4 Describe how to plan the work. B1.1.5 Explain the process of laying a dry bond, and how to establish proper spacing. B1.2.1 Describe how to build a standard brick/block corner. B1.2.2 Explain why it is important to check height, level, plumb, and straightness for each course of the corner. B1.3.1 Explain why it is important to lay precisely without disturbing the line. B1.3.2 Explain why it is important to have a good full head and bed joint.	**Residential Masonry I, Unit 2, Blueprints and Layouts** **Content Standard** 2. Interpret residential masonry plans and drawings. **Learning Objectives** 1. Define and interpret lines and symbols. 2. Define written specifications. 3. Explain and understand residential plans. 4. Explain and understand residential drawings. **Residential Masonry I, Unit 4-11, Wall and Openings** **Content Standard** 4. Compare types of walls in residential buildings, including basic structure and function. 5. Identify the location and function of control joints and expansion joints. 6. Identify rules and regulations relative to masonry construction. 7. Construct various types of walls using reinforcement, jointing, and bonding techniques. 8. Identify various types of masonry arches. 9. Construct semicircular and jack arches. 10. Demonstrate techniques for installing masonry around windows, doors, and other openings. 11. Demonstrate techniques used to construct bracing, including pilasters. **Learning Objectives**	

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	1. Explain residential buildings structure and functions. 2. Explain control joints and expansion joints. 3. Explain rules and regulations of residential construction. 4. Lay various types of brick walls. 5. Explain arches and circles. 6. Lay semicircular and jack arches. 7. Layout windows and doors. 8. Build piers and pilasters. **Residential Masonry II, Unit 3-4, Foundations Content Standard** 3. Use modular, spacing, layout, and corner rules when constructing residential masonry foundations with varying thickness, including 4-, 8-, and 12-inch walls. 4. Construct foundation walls. Examples: 4-, 8-, 12-inch walls **Learning Objectives** 1. Lay a corner for residential construction using a modular rule. 2. Lay a corner for residential construction using a spacing rule. 3. Lay a corner for residential construction using a corner pole. 4. Lay a 4” corner for residential foundation. 5. Lay an 8” corner for residential foundation.	

Postsecondary Course Objectives	Secondary Objectives and Location(s)	TEDAC Comments
	6. Lay a 12” corner for residential foundation. 7. Lay a 4” foundation wall. 8. Lay an 8” foundation wall. 9. Lay a 12” foundation wall. **Residential Masonry II, Unit 5-6, Brick Veneer Content Standard** 5. Construct a brick veneer wall. 6. Use residential scaffolding typical to masonry construction. **Learning Objectives** 1. Lay a brick veneer wall for residential construction. 2. Set up scaffolds for residential construction.	