



Alabama Department of Postsecondary Education

Representing the Alabama Community College System

STATEWIDE CAREER/TECHNICAL EDUCATION COURSE ARTICULATION REVIEW MINUTES

Articulation Agreement Identifier: MAS 121 (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 121 Brick / Block Masonry Fundamentals

Secondary Education course(s) title and number: 431401/430040 - Block Wall Construction

Initial 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.**

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

Postsecondary Course Objectives	Secondary Objectives and Location(s)	TEDAC Comments
<p>Module B <u>BRICK AND BLOCK</u></p> <p>PROFESSIONAL COMPETENCIES B1.0 Lay a masonry wall according to specifications.</p> <p>PERFORMANCE OBJECTIVES B1.1 Demonstrate how to properly set up a work area. B1.2 Lay a dry bond. B1.3 Spread a bed joint, and butter a head joint. B1.4 Lay a masonry unit in a true course.</p> <p>LEARNING OBJECTIVES B1.1.1 Explain the purpose of the layout line. B1.1.2 Describe how to stock out a masonry unit wall. B1.1.3 Explain the proper positioning of the mortar boards. B1.1.4 Explain the proper positioning of masonry units. B1.2.1 Explain the purpose of dry bonding. B1.2.2 Explain how to lay a dry bond. B1.3.1 Describe the importance of a good bed joint. B1.3.2 Describe the importance of a good head joint. B1.3.3 Explain how to spread a bed joint, and butter masonry units. B1.4.1 Explain how to lay masonry units in a true course. B1.4.2 Describe the process of level, plumb, and straight edging.</p>	<p><u>Block Wall Construction, Unit 2-3, Blueprints and Layouts</u> <u>Content Standard</u></p> <p>2. Interpret measurements, drawings, and specifications for block wall construction.</p> <p>Examples: locating building lines, establishing benchmarks</p> <p>3. Demonstrate the ability to set up a job area for block wall construction.</p> <p><u>Learning Objectives</u></p> <ol style="list-style-type: none"> 1. Define and interpret lines and symbols for block walls. 2. Define written specifications for block walls. 3. Explain and define building lines and bench marks. 4. Explain mortar mix used in block walls. 5. Machine mix mortar to right consistency for block walls. 6. Dry bond block walls. 7. Interpret joint sizes for block walls. 8. Set up a job for block walls. <p><u>Block Wall Construction, Unit 5-9, Construction Techniques</u> <u>Content Standard</u></p> <p>5. Construct block walls using running and stack bond materials in various block sizes and finishes.</p>	

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	<p>Examples: sizes—4-, 6-, 8-, and 12-inch blocks finishes—broken face, smooth face</p> <p>6. Utilize various materials to bond doors and windows. Examples: anchors, ties, expansion and control joints</p> <p>7. Utilize various formulas for mixing mortar. • Determining mixtures for hand-mixed mortar and for machine-mixed mortar</p> <p>8. Construct block corners using a variety of block sizes and finishes.</p> <p>Examples: size—4- and 6-inch blocks finishes—broken face, smooth face</p> <p>9. Create a stretcher course of block for a block wall construction.</p> <p><u>Learning Objectives</u></p> <ol style="list-style-type: none"> 1. Lay running bond block walls. 2. Lay stacked block walls. 3. Lay various kinds and sizes of CMU's. 4. Layout doors and windows for block work. 5. Explain and demonstrate reinforced walls in block work. 6. Lay block corners. 7. Lay stretcher walls with CMU's. 	