

ATDW-1330: MATERIALS AND METHODS OF DRYWALL FINISHING

Cuyahoga Community College

Viewing: ATDW-1330 : Materials and Methods of Drywall Finishing

Board of Trustees:

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Academic Term:

Fall 2019

Subject Code

ATDW - Appld Ind Tech-Drywall Finish.

Course Number:

1330

Title:

Materials and Methods of Drywall Finishing

Catalog Description:

Introduction to history, composition, and application of basic materials and procedures of drywall finishing trade including identification of wall boards, joint compounds, joint tapes, fasteners, adhesives, beads, and trim; measuring and cutting beads and trim; application of wall boards, joint compounds, joint tapes, and beads to various surfaces and structures.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: Admission to apprenticeship program.

Outcomes

Course Outcome(s):

Identify and select appropriate drywall materials and tools to meet job specifications.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Differentiate between types, sizes and applications of various drywall boards.
2. Explain the history of drywall wall application.
3. Discuss the advantages of using drywall in the construction industry, including purpose, composition and benefits.
4. Identify various types of drywall materials including compounds, fasteners and trims.

Course Outcome(s):

Measure, cut and follow proper procedures to apply drywall materials in accordance with job specifications and industry standards.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Identify the tools used for measuring and cutting drywall and trims.
 2. Discuss measuring and cutting techniques for various types of joints, beads and trims.
 3. Demonstrate the ability to use hand tools to attach drywall beads.
 4. Demonstrate the ability to apply various joint compounds, tapes and beads on different surfaces and building types.
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Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of assigned projects

Course Content Outline:

1. Drywall: Materials and tools
 - a. Drywall boards
 - i. Types
 1. Standard
 2. Vinyl faced
 3. Fiberglass faced
 4. Paperless
 5. Sound resistant
 6. Impact resistant
 7. Moisture resistant
 8. Exterior resistant
 9. Exterior
 10. Lead backed
 - ii. Sizes
 1. Thicknesses
 - a. ¼ "
 - b. 3/8"
 - c. ½ "
 - d. 5/8"
 - e. 1"
 2. Width
 - a. 48"
 - b. 52"
 3. Length
 - a. 8ft-0
 - b. 10ft-0
 - c. 12ft-0
 - d. 16ft-0
 - e. specialty
 - iii. Applications
 1. Commercial
 2. Residential
 3. Ceilings
 4. Walls
 5. Shaft walls
 6. Fireproofing
 7. Specialty
 - b. History
 - i. Rock lath
 1. Sackett board
 2. Plaster backing
 3. 2'-0 X 4'-0
 - ii. 1916

- iii. Plaster replacement
- iv. Industry standard
- c. Advantages
 - i. Purpose
 - 1. Increased efficiency
 - 2. Cost saving
 - 3. Reduced moisture in structure
 - 4. Backing
 - ii. Composition
 - 1. Paper
 - 2. Gypsum
 - 3. Wood pulp
 - 4. Fiber
 - iii. Benefits
 - 1. Reduced
 - 2. Fireproofing
 - 3. Less strenuous
- d. Drywall materials
 - i. Compounds
 - 1. Taping mud
 - 2. All purpose
 - 3. Lightweight
 - 4. Mid-weight
 - 5. Topping
 - 6. Setting
 - ii. Fasteners
 - 1. Nails
 - 2. Screws
 - 3. Clips
 - 4. Tracks
 - 5. Glue
 - iii. Trims
 - 1. Corner bead
 - 2. L bead
 - 3. J molding
 - 4. Tear away
 - 5. Crown molding
 - 6. Corner guard
- 2. Measuring, cutting, and installation
 - a. Tools
 - i. Measuring
 - 1. Tape measure
 - 2. Folding
 - 3. Ruler
 - 4. T square
 - ii. Cutting
 - 1. Drywall
 - a. Utility knife
 - b. Circle cutter
 - c. Keyhole saw
 - d. Multi-tool
 - e. Roto zip
 - 2. Trims
 - a. Snips
 - b. Chop saw
 - c. Utility knife
 - b. Techniques

- i. Measuring
 - 1. Allowances
 - a. Expansion
 - b. Taping allowances
 - 2. Centerline locations
 - 3. Angle consideration
 - 4. Plumb/level references
- ii. Cutting
 - 1. Snap blade
 - 2. Score/break
 - 3. Scrubbing/rasp
- iii. Trims
 - 1. Snips
 - 2. Knife
- c. Bead installation
 - i. Measure/cut
 - ii. Installation
 - 1. Mechanically applied
 - 2. Adhesive
 - 3. Compound applied
- d. Compound tapes and beads
 - i. Pre-filling
 - 1. Joints
 - 2. Gaps
 - ii. Fastener coating
 - iii. Tape and coat joint gaps
 - iv. Trim/bead install and coating
 - v. Surfaces
 - 1. Drywall
 - 2. Texture skimming
 - 3. Wall paper removal
 - vi. Building configuration
 - 1. Standard
 - a. Horizontal
 - b. Vertical
 - 2. Ceilings
 - 3. Angles
 - 4. Radius

Resources

Finishing Trades Institute. *Materials of Drywall Trade*. 1st. Finishing Trades Institute 7230 Parkway Drive Hanover, MD 21076, 1998.

Finishing Trades Institute. *Tools of the Drywall Trade*. 1st. Finishing Trades Institute 7230 Parkway Drive Hanover, MD 21076, 1998.

CGC Inc. *Gypsum Construction Handbook*. 350 Burnhamthorpe road west 5th floor Mississauga, Ontario L5B 3J1: CGC Inc. , 2005.

Resources Other

Additional resources (websites)

www.Fti.personalearning.com

www.USG.com

www.Hydetools.com

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