

ATDW-1310: TOOLS AND METHODS OF DRYWALL FINISHING

Cuyahoga Community College

Viewing: ATDW-1310 : Tools and Methods of Drywall Finishing

Board of Trustees:

March 2020

Academic Term:

Fall 2020

Subject Code

ATDW - Appld Ind Tech-Drywall Finish.

Course Number:

1310

Title:

Tools and Methods of Drywall Finishing

Catalog Description:

Introduction to basic tools, procedures, and methods of the drywall finishing trade including history, purposes, identification, and proper use of hand and power tools, components of the tools, proper cleaning and maintenance of the tools.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: Admission to apprenticeship program.

Outcomes

Course Outcome(s):

Discuss basic hand and power tools of the drywall trade and explain uses and purpose.

Objective(s):

1. List and define the terms related to drywall finishing tools.
2. Identify the basic hand, power, texturing, and miscellaneous tools of the drywall trade.
3. Explain the components, variations and use of each tool.
4. Explain how tools can be modified to accommodate the specific needs of different jobs.

Course Outcome(s):

Demonstrate safe, proper, and efficient use of basic hand and power tools of the drywall trade.

Objective(s):

1. Demonstrate the ability to finish drywall using hand and power tools while completing a drywall project.
 2. Tape and finish a hands-on project.
 3. Final coat a finishing hands on project.
 4. Sand, inspect, and touch up a finishing hands on project.
 5. Complete an advanced project with job-like conditions.
 6. Demonstrate application of tools and equipment with special considerations/modifications to meet job needs.
 7. Follow procedures for the proper maintenance, and storage of hand and power tools.
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Methods of Evaluation:

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

Course Content Outline:

1. Dry Finishing: Tools and Application
 - a. Terminology
 - i. Mixing drill
 - ii. Paddle
 - iii. Bucket
 - iv. Knives
 - v. Coving tool
 - vi. Bat knife
 - vii. Tin snips
 - viii. Pan holder
 - ix. Tape hook
 - x. Pole sander
 - xi. Sanding sponge
 - xii. Mud pan
 - b. Tools: Hand and Power
 - i. Hand
 1. Taping knives
 - a. 4"
 - b. 5"
 - c. 6"
 2. Broad knives
 - a. 8"
 - b. 10"
 - c. 12"
 3. Small knives
 - a. 1'
 - b. 2"
 - c. 3"
 4. Specialty knives
 - a. 14"
 - b. 24"
 - c. 4' float/Darby
 - d. Bat knife/coving tool
 - e. Flexible knife
 - f. Corner plow
 5. Sanding
 - a. Sanding pole
 - b. Sand paper
 - c. Sanding sponge
 6. Cleaning tools
 - a. Scrub brush
 - b. Drying towel
 - c. Oil/lubricant
 - ii. Power tools
 1. Mixing drill
 - a. Corded ½"
 - b. Cordless ½"
 2. Screw gun
 - a. Cordless
 - b. Impact gun
 3. Router/cut out tool

- a. Corded
 - b. Cordless
- c. Tool: components and variations
 - i. Components
 - 1. Blade
 - 2. Handle
 - 3. Mud pan
 - 4. Attachable pole
 - ii. Variations
 - 1. Blade shape and size
 - 2. Handle configuration
 - 3. Mud pan size
 - 4. Attachable pole size and extension
- d. Tool modifications/job needs
 - i. Specific jobs
 - 1. Tight spots
 - 2. Odd angles
 - 3. Rounded surfaces
 - ii. Modifications
 - 1. Angled and rounded blade knives
- e. Finishing techniques
 - i. Knife and Pan
 - ii. Hock and Trowel
 - iii. Automatic Tools
- 2. Safety concerns
 - a. Falls
 - b. Cuts
 - c. Abrasions
 - d. Strains
- 3. Procedures
 - a. Prefill
 - b. Tape Coat
 - c. Fill Coat
 - d. Finish Coat
 - e. Sand
 - f. Touchups
 - g. Repairs
- 4. Tool maintenance
 - a. Hand tool
 - i. Clean
 - ii. File edges
 - iii. Remove rust
 - iv. Oil
 - v. Straighten
 - vi. Keep dry
 - b. Power tools
 - i. Charge batteries
 - ii. Lubricate as needed
 - iii. Clean
 - iv. Keep cords wound
 - v. Safely store when not in use
 - vi. Replace damaged parts

Resources

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

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

CGC Inc. *Gypsum Construction Handbook*. 350 Burnhamthorpe Road West 5th Floor Mississauga, Ontario L5B 3J1 CGC Inc., 2005.

Resources Other

Additional resources (websites)

Fti.personalearning.com

USG.com, 2019.

Hydertools.com, 2018.

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