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**IDENTIFIERS** 

\*Quinmester Program

#### ABSTRACT

The curriculum guide outlines a course designed to provide instruction in the selection, preparation, and installation of hardware for door assemblies. The course is divided into five blocks of instruction (introduction to doors and hardware, door hardware, exterior doors and jambs, interior doors and jambs, and a quinmester post-test) totaling 135 hours in length. Instruction is accomplished by means of lectures, classroom performance, and textbook references. Emphasis is placed on the manipulative processes. Also presented are the course goals, specific block objectives, and a course outline. Appended are a bibliography and a quinmester sample post-test. (Author/BP)

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**AUTHORIZED COURSE OF INSTRUCTION FOR THE** 



Course Outline

CARPENTRY - 9163 (Door Hardware and Installations)

Department 48 - Quin 901894

# DADE COUNTY PUBLIC SCHOOLS 1450 NORTHEAST SECOND AVENUE MIAMI, FLORIDA 33132

Course Outline

CARPENTRY - 9163
(Door Hardware and Installations)

Department 48 - Quin 901894

county office of VOCATIONAL AND ADULT EDUCATION

#### THE SCHOOL BOARD OF DADE COUNTY

Mr. G. Holmes Braddock, Chairman Mr. William H. Turner, Vice-Chairman Mrs. Ethel Beckham Mr. Alfredo G. Duran Mrs. Phyllis Miller Mr. Robert Renick Dr. Ben Sheppard

Dr. E. L. Whigham, Superintendent of Schools Dade County Public Schools Miami, Florida 33132

October 9, 1974

Published by the School Board of Dade County



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#### Course Description

9163
State Category
Number

48
901894
County Course
Number
Door Hardware and Installations
Course Title
Number

Overview: A study of different kinds of door hardware, trims and their application.

Objectives: Students will select, prepare and accurately install door hardware and trims.

Content: A study of doors, door hardware, trim, and the methods of precise installation.

Selection Considerations: Students in this course will have the skills and knowledge of building construction plans, foundations, walls and finishes, in addition to a basic knowledge of mathematics.



#### PREFACE

This sixth quinmester course outline is designed to provide instruction in the selection, the preparation and the installation of hardware for door assemblies.

In addition to acquiring the skills relevant to this course, the student will develop positive attitudes regarding the value and dignity of work.

This intermediate course is divided into five blocks which are subdivided into a number of units. It is 135 hours in length.

Students in this course will have the skills and knowledge of building construction plans, foundations, walls and finishes, in addition to a basic knowledge of mathematics.

Instruction is accomplished by means of lectures, classroom performance and textbook references. Emphasis is placed on the manipulative processes.

The bibliography lists materials offering additional information in the field of building construction.

This outline was developed through the cooperative efforts of the instructional and supervisory personnel and the Vocational Curriculum Materials Service, and has been approved by the Dade County Vocational Curriculum Committee.



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#### GOALS

#### The student must be able to:

- 1. Demostrate the ability to develop the attitudes, skills, knowledge and values required for entering the carpentry trade.
- 2. Develop skills and knowledge in specific areas within the carpentry field in order to advance in this area.
- 3. Become aware of the various career opportunities available by working and cooperating with other tradesmen in this broad occupational field.
- 4. Develop safe work habits and disciplines in all daily tasks.
- 5. Demostrate a willingness to accept the more difficult tasks facing the carpenter at times.





#### SPECIFIC BLOCK OBJECTIVES

#### BLOCK I - INTRODUCTION TO DOORS AND HARDWARE

#### The student must be able to:

- 1. Describe the differences between and exterior and interior door lamb.
- 2. Name two kinds of locks used on interior doors of private homes.
- 3. Explain the puppose of door fit clearances.

#### BLOCK II - DOOR HARDWARE

#### The student must be able to:

- 1. Name two kinds of hinges.
- 2. Describe the difference between a mortise and tubular locking assembly.
- 3. Measure and mark the locations for two hinges to be placed on a door.

#### BLOCK III - EXTERIOR DOORS AND JAMBS

#### The student must be able to:

- 1. Explain the purpose of a door jamb.
- 2. Install and plumb a door jamb.
- 3. Point out the difference between brick molding and casing.
- 4. Pasten brick mold to a door jamb resulting in precise miter joints.

#### BLOCK IV - INTERIOR DOORS AND JAMBS

#### The student must be able to:

- 1. Neatly and precisely install hinges to both jamb and door and install.
- 2. Correctly install passage lock and mating striker.
- 3. Explain why new exterior doors usually require more clearance than interior doors.
- 4. Name four types of locks and three types of hinges that are popular.

#### BLOCK V - QUINMESTER POST-TEST



#### Course Outline

# CARPENTRY - 9163 (Door Hardware and Installations)

#### Department 48 - Quin 901894

#### I. INTRODUCTION TO DOORS AND HARDWARE

- A. Hinges and Locks
  - 1. Purpose of hinge
  - 2. Sizes and types
    - a. Locating and gaining
    - b. Matching with jamb
  - 3. Purpose of locks
  - 4. Sizes and types
    - a. Locating and mortising
    - b. Striker locating
- B. Exterior and Interior Jambs and Doors
  - 1. Jambs
    - a. Metal
    - b. Wood
      - (1) Types
      - (2) Plumbing and installing
      - (3) Trimming
  - 2. Doors
    - a. Metal
    - b. Wood
      - (1) Fit clearances
      - (2) Hinge locating and installing
      - (3) Locks, strikers and installation

#### II. DOOR HARDWARE

- A. Locks
  - 1. Mortise lock
    - a. Large door edge opening
    - b. Mortise and gain
  - 2. Tubular lock
    - a. Round mortised hole
    - b. Gain
  - 3. Privacy
  - 4. Passage
  - 5. Entry
    - a. Dead bolts
      - (1) Flush
      - (2) Surface
    - b. Chain and various others
- B. Hinges
  - 1. Mortise
    - a. Full
    - . Half





- 2. Surface
  - a. Full
  - b. Half
- 3. Loose pin
  - a. Template
  - b. Parliament
- 4. Tight pin
  - a. Olive knuckle
  - b. Offset

#### III. EXTERIOR DOORS AND JAMBS

- **Heavy Jambs** 
  - 1. Metal manufactured
  - 2. Wood milled and prefabricated
  - 3. Wood made on site
    - a. Blocking and plumbing
    - b. Securing
  - Threshold
    - a. Metal, wood or marble
    - b. Caulking
  - 5. Trims
    - a. Brick mold
    - b. Casing
    - c. Various ohters
      - (1) Butt jointing(2) Miter jointing
- Solid Doors
  - 1. Sizing and preparing
  - 2. Fit clearances
    - a. Hinge locating
    - b. Gaining
  - 3. Hinge-jamb matching
    - a. Gaining
    - b. Securing and pinning
  - Lock fitting
    - a. Mortising and gaining
    - b. Drilling and assembling
    - c. Striker locating
    - d. Gaining and securing

#### IV. INTERIOR DOORS AND JAMBS

- Light Door Jambs
  - 1. Milled and prefabricated
  - Made on site
    - a. Blocking and plumbing
    - b. Securing



- 3. Trims
  - a. Brick mold
  - b. Casing
  - c. Various others

    - (1) Butt jointing(2) Miter jointing
- B. Flush Doors
  - 1. Sizing and preparing
  - 2. Fit clearances
    - a. Hinge locating
    - b. Gaining
  - 3. Hinge-jamb matching
    - a. Gaining
    - b. Securing and pinningc. Door stops
  - 4. Lock fitting
    - a. Mortising and gaining
    - b. Drilling and assembling
    - c. Striker locating
    - d. Gaining and securing
- QUINMESTER POST-TEST

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A P P E N D I X

Quinmester Post-Test Sample



### QUINMESTER POST-TEST

Name		Date	Score
Mu1t	iple	Choice	
1.	A to	ool used for installing a tubular lock is the	
	a.	casing.	
	Ъ.	drill bit.	
		plane.	
	·d.	round rile.	
2.		mortise lock is installed	•
		inside the door.	
	ь.		
	c.		
	d.	on back.	
3.		assage lock would not be found on a door leading to	the
		closet.	
		bathroom.	
		utility room.	
	d.	living room.	
4.		n gaining for a door hinge we use a	
		level.	
		file.	
	-	screwdriver.	
	d.	chisel.	
5.	How	many hinges are required on flush interior doors?	
	a.	one.	
		two.	
		three.	•
	d.	four.	
6.	A . 8	solid door is usually found on the	•
	a.	inside.	
	ь.	bedroom.	
	C.		
	d.	bathroom.	
7.	Bri	ick molding would be attached to the outside of a	
	a.	brick.	
	ъ.	door.	
	c.	corner	
	đ.	step. "	
8.	A t	material used when blocking a jamb is the	
· • •	a.	shingle.	
	b.	oak.	
	C.	pine.	
	d.	stud.	



9.	A jamb fits on the inside of a
	a. door.
	b. mortise.
	c. wall.
	d. hinge.
10.	Moldings are machined in a
	a. saw.
	b. vice.
	c. store.
	d. mill.
rı.	Mortising and "gaining" applies to work on a
	a. jamb.
	b. door.
	c. trim.
	d. threshold.
12.	Hinges are fastened with
	a. nails.
	b. nuts.
	c. bolts.
	d. screws.
13.	Miter jointing applies to
	a. jambs.
	b. trim.
	c. locks.
	d. gaining.
14.	Door stops are made of
	a. molding.
	b. tubular.
	c. brick mold.
	d. miter.
15.	Wooden exterior jambs are usually
	a. molding.
	b. mill
	c. steel.
	d. short.
16.	Hallow doors are referred to as
	a. exterior.
	b. swing.
	c. flush.
	d. safe.
17.	Three hinges are required on a door that is
	a. light.
	b. heavy.

small. thin.

- 18. A sharp chiecl is necessary for good
  - a. gaining.
  - b. drilling.
  - c. hinges.
  - d. swing.
- 19. How many inches is the upper hinge located from the top of the door?
  - a. 4"
  - b. 5"
  - c. 6"
  - d. 7"
- 20. How many inches is the lower hinge located from the bottom of the door?
  - a. 8"
  - b. 9"
  - c. 10"
  - d. 11"

## ANSWER KEY TO QUINMESTER POST-TEST

1. b

b

C

7.

8.

9. C

10. d

11.

12. đ

13.

14.

15.

16.

17.

18.

19. d

20.

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