

**College of Micronesia – FSM**  
**P.O. Box 159**  
**Kolonia, Pohnpei**

**Course Outline Cover Page**

**Finishing and Trim Work**

**Course Code VCT 183**

**Course Description:**

This course is designed to teach the student the tools, methods and materials necessary to finish the interior of a residential or commercial building. The course covers the installation of wall and ceiling panels, installation of windows and doors, construction of cabinets and closets, application of trim and moldings, and installation of finishing hardware.

**Course prepared by:** Stephen Richmond

**State:** Chuuk

	Hours / week	#. of weeks	Total hours	Semester Credits
<b>Lecture/Workshop</b>	<u>3</u>	x <u>16</u>	= <u>48</u>	= <u>3</u>

**Purpose of Course**

- Degree Requirement
- Degree elective
- Certificate XX
- Remedial
- Other (workshop)

**Prerequisite(s)**                      VCT 153 Introduction to Carpentry

\_\_\_\_\_  
Signature, Chairperson, Curriculum committee

\_\_\_\_\_  
Date Approved by Committee

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Signature, President, COM, FSM

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Date Approved by President

**COUSE TITLE**

**Finishing and Trim Work**

**Nominal Duration**

**48 hours/3 Credits**

**Course Code**

**VCT 183**

**General Objectives:**

**This course is designed to teach the student the tools, methods and materials necessary to finish the interior of a residential or commercial building. The course covers the installation of wall and ceiling panels, installation of windows and doors, construction of cabinets and closets, application of trim and moldings, and installation of finishing hardware**

**In addition, student evaluation will include digital photos showing details of student production (listed in the specific objectives). Also each student will have a faculty generated portfolio which will include images of individual and class projects as well as a rubric for each finished product using the following criteria:**

- 1. Accuracy in measurement**
- 2. Attention to detail**
- 3. Proper use of tools**
- 4. Selection of appropriate materials**
- 5. Attention to safety concerns**

**All work practices must ensure that safe practices are adopted.**

**I. Learning outcomes:**

**Upon successful completion of this course the student will be able to:**

- 1. Identify the different types of interior finishing materials**
- 2. Lay out and construct hollow wood interior walls from a blueprint or sketch**
- 3. Estimate materials required to finish and interior**
- 4. Install suspended ceiling**
- 5. Layout and install a wood floor**
- 6. Layout, construct and install a wood stairway**
- 7. Layout and construct a simple closet or hanging cabinet**

**Upon successful completion of this course the student will be able to:**

**Learning outcome 1: Identify the different types of interior finishing materials**

**Assessment Criteria**

- a. Identify the various types of common finishing materials
- b. Describe the characteristics and benefits of each type of material
- c. Identify and select the appropriate tools to work with each type of finishing material.

**Conditions**

**Working in groups given:**

- **Resources**
- **Verbal presentation to the group of learners**

**Assessment Method methods**

**Assessment may involve any of the following**

- **Oral questioning**
- **Written tests**
- **Individual written assignments**

**Learning outcome 2: Lay out and construct hollow wood interior walls from a blueprint or sketch**

**Assessment Criteria:**

1. Name the needed parts for the project
2. Select appropriate materials for accomplish the task
3. Select appropriate tools to accomplish the task
4. Demonstrate proper tool usage in performing the work

**Conditions**

**Working in groups given:**

- **Resources**

- **Appropriate tools and materials**
- **Verbal presentation to the group of learners**

**Assessment Method methods**

**Assessment may involve any of the following**

- **Oral questioning**
- **Written tests**
- **Individual written assignments**
- **Active participation in group activity**

**Learning outcome 3: Estimate materials required to finish the interior**

**Assessment Criteria**

1. Read plans and blueprints
2. Perform a materials take off from plans
3. Determine approximate amount of various kinds of materials to be used in the project
4. Based of common costs determine the approximate total cost for the project materials

**Conditions**

**Working in groups given:**

- **Resources**
- **Verbal presentation to the group of learners**

**Assessment Method methods**

**Assessment may involve any of the following**

- **Oral questioning**
- **Written tests**
- **Individual written assignments**
- **Active participation in group activity**
- **Accuracy of calculations**

**Learning outcome 4: Install suspended ceiling**

**Assessment Criteria**

1. Establish ceiling height
2. Calculate needed materials
3. Select needed materials

4. Select appropriate tools
5. Install a sample ceiling to specifications of the project

**Conditions**

**Working in groups given:**

- **Resources**
- **Verbal presentation to the group of learners**
- **Demonstration of specific techniques**

**Assessment Method methods**

**Assessment may involve any of the following**

- **Oral questioning**
- **Written tests**
- **Individual written assignments**
- **Active participation in group activity**
- **Quality of final product**

**Learning outcome 5: Layout and install a wood floor**

**Assessment Criteria**

- a. Based of a blueprint determine amount and type of materials needed
- b. Name the needed parts
- c. Obtain needed materials
- d. Select appropriate tools
- e. Layout and install joists
- f. Install flooring materials

**All work practices must ensure that safe practices are adopted.**

**Conditions**

**Working in groups given:**

- **Resources**
- **Verbal presentation to the group of learners**

**Assessment Method method**

**Assessment may involve any of the following**

- **Oral questioning**
- **Written tests**

- **Individual written assignments**
- **Active participation in group activity**

**Learning outcome 6: Layout, construct and install a wood stairway**

**Assessment Criteria**

1. Name the needed parts
2. Determine the rise and run of the stairway
3. Determine number of treads based on common code practices
4. Select appropriate materials
5. Select appropriate tools
6. Cut stair jacks if needed
7. Install treads and risers
8. Trim finished product

**Conditions**

**Working in groups given:**

- **Resources**
- **Verbal presentation to the group of learners**
  - i. **Demonstration by instructor of technical details as needed**

**Assessment Method methods**

**Assessment may involve any of the following**

- **Oral questioning**
  - **Oral questioning**
  - **Written tests**
  - **Individual written assignments**
  - **Active participation in group activity**
  - ◆ **Quality of finished product**

**Learning outcome 7: Layout and construct a simple closet or hanging cabinet**

**Assessment Criteria**

1. Read plans to determine details of project
2. Select appropriate materials
3. Select appropriate tools
4. Construct project to specifications in plans

### **Course content:**

#### **1. Introduction**

1. Reading and interpretation of blueprint interior details
2. Types of finishing materials

#### **2. Interior Walls**

1. Interior wall openings
2. Wood, gypsum paneling
3. Materials estimation
4. Service accommodation e.g. electrical, plumbing
5. Practical exercise

#### **3. Ceilings**

1. Wood and gypsum panel ceilings
2. Suspended ceilings
3. Materials estimation
4. Practical exercise

#### **4. Floors**

1. Board and plywood flooring
2. Overview of hardwood strip flooring
3. Vinyl and tile flooring
4. Material estimation
5. Practical exercise

#### **5. Steps and stairways**

1. Terms- risers tread, nosing, newel, handrail, baluster, platform, landing, total rise
2. Stairway layout
3. Railings, balusters, newel posts
4. Material estimation
5. Practical exercise

### **Required course materials**

#### **1. Instructor**

1. Wood shop with selected hand and power tools
2. Text, Instructors Resource Guide
3. Access to paper copying resource
4. Digital Camera
5. Computer with printer
6. Individual student portfolio folders
7. Tools lumber and woodworking supplies (See attached list)

**2. Student**

1. Student tool set (if available)
2. Three ring binder
3. Writing tools
4. Drafting tools
5. College ruled notebook
6. Architectural scale
7. Eye protection
8. Work gloves
9. Safety shoes

**IV. Reference materials:**

**Carpentry and building Construction**

John L. Freirer, Gilbert Hutchings, Mark Freirer, 1997  
Glencoe McGraw Hill 5<sup>th</sup> edition  
ISBN 007822702X

**V. Instructional Costs**

Text:	41.99
Instructors Guide	50.99
Student tool set	350.00
Classroom supplies	60.00

**VI. Method of instruction:**

1. Demonstration by instructor
2. Lecture
3. Group work
4. Team work on projects
5. Discussion
6. Practical exercise

**Required course Materials:**

**Supplies:**

1. Assorted nails
2. Corrugated fasteners
3. Screws, assorted sizes and types
4. Bolts, nuts, washers, assorted lengths
5. Corner irons, assorted sizes
6. Hinges, assorted sizes
7. Hasps, hook and eye fasteners, assorted
8. Wood filler

**Materials:**

1. Dimensional lumber, assorted
2. Plywood, assorted
3. Hardboard, (Masonite or equivalent)
4. Plastic laminate (Formica or equivalent)

**Adhesives**

1. Yellow glue
2. Resin glue
3. Contact cement
4. Glue cartridge (liquid nail or equivalent)

**Hand Tools:**

1. Hammer, curved claw
2. Hammer straight claw
3. Hammer, Tack
4. Saw 10pt
5. Saw coping with blades
6. Saw, Miter
7. Saw, dovetail
8. Hacksaw
9. Wood chisel set
10. Cold chisel
11. Drill brace
12. Auger bit set
13. Egg beater drill
14. Twist drill set
15. Plane, block
16. Screwdriver set
17. File set
18. Wood rasp
19. Utility knife
20. Sharpening stone
21. Tape measure (25' or 30')
22. Carpenter square
23. Combination square

- 24. Spirit level
- 25. Nail set

**Power tools**

- 1. Table saw
- 2. Circular saw
- 3. Band saw
- 4. Jointer (6 in)
- 5. Router with assorted bits
- 6. Belt sander
- 7. Electric drills (battery powered and plug in)
- 8. Electric miter box.
- 9. Extension cord

**VII Evaluation**

1. Final grades for this course will be assessed based on meeting the course requirements at the following percentage rates:

- 90% - 100%      A -Superior
- 80% - 89%      B -Above Average
- 70% - 79%      C -Average
- 60% - 69%      D -Below Average
- 0 – 59%      F –Failure

2. For each learning outcome the following rubric for evaluation will be used:

<b>Criteria</b>	<b>A</b>	<b>C</b>	<b>F</b>
<b>Accuracy in measurement</b>	<b>Can read measuring tools to a 1/8<sup>th</sup> inch accuracy</b>	<b>Can read measuring tools to a 1/2” accuracy</b>	<b>Cannot read measuring tools</b>
<b>Attention to safety concerns</b>	<b>Always has proper safety equipment when working with tools</b>	<b>Sometimes has proper safety equipment</b>	<b>Does not follow safety rules</b>
<b>Proper use of tools</b>	<b>Uses the proper tools 90% of the time</b>	<b>Uses the proper tool 60% of the time</b>	<b>Seldom used the proper tool</b>
<b>Selection of appropriate materials</b>	<b>Can identify and select proper materials 90% of the time</b>	<b>Can identify and select proper materials 60% of the time</b>	<b>Can not select proper materials for the job</b>

3. Competency in practical exercised in determined to be completed required project (s) within the 15+ week course time limit with +/- 1/4 inch accuracy in all major dimensions.
4. Written tests

**Attendance:**

The COM-FSM, Attendance and honesty policy will apply