

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

Course Outline Cover Page

Introduction to Cabinetmaking/Furniture Making

Course Title

VCF 104

Department and Number

Course Description:

This introductory course is designed to familiarize students with the terminology, materials and hand tools used in the manufacturing process of both domestic and commercial cabinet/furniture making.

Prepared by: Jeff Steel

State: Pohnpei Campus

	Hours per Week	No. Of Weeks	Total Hours	Semester Credits
Lecture	3/6	16/8	48	3
Total Semester Credits:				3

Purpose of Course

Degree Requirement	_____
Degree Elective	_____
Advanced Certificate	_____
Certificate	_____XX_____
Apprenticeship	_____XX_____
Other (Workshop)	_____

Prerequisite Course(s): VMS 100 Technical Math I, VSP 153 Industrial Safety, ESL 050 or SS 100 World of Works.

Signature, Chairman, Curriculum Committee

Date Approved by Committee

Signature, President, COM-FSM

Date Approved by the President

COURSE TITLE **INTRODUCTION TO CABINETMAKING/FURNITURE MAKING**

Nominal Duration **48 Hours/3 Credits**

Course Code **VCF 104**

General Objective **To introduce students to the role of the cabinetmaker as part of the building industry. Make students aware of safety aspects while working within this industry and provide the students with the underpinning knowledge and skills to identify, manufacture and assemble basic furniture construction joints using hand and power tools.**

Prerequisites

- VSP 153 Industrial Safety. Before or concurrently.
- VMS 100 & ESL 050 or SS 100 World of Works. Before or concurrently

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

1. Demonstrate an understanding of the role and responsibilities of the cabinetmaker in relationship to the building industry.
2. Describe the environmental impacts on the furniture industry.
3. Identify skill/trade areas within the cabinet/furniture industry.
4. Identify, select, use, maintain and store hand tools and equipment used in the manufacture of cabinet/furniture components.
5. Manufacture a range of furniture construction joints

Delivery Delivery methods must provide for the demonstration of competence in skills specified in all learning outcomes.

Assessment More than one learning outcome may be assessed at once, by observing the learners ability to apply both specified skills and knowledge.

LEARNING OUTCOME 1

Emergence of the Cabinetmaking/Furniture Industry

VCF 104.1

Demonstrate an understanding of the role and responsibilities of the cabinetmaker in relationship to the building industry.

Assessment Criteria

- 104.1.1 Describe the type of work performed by a Cabinetmaker.**
- 104.1.2 Describe the role and responsibilities of a cabinetmaker on a building site.**
- 104.1.3 Explain the role and responsibilities of a cabinetmaker in the workshop.**

All work practices must ensure that safe practices are adopted.

Conditions

Working in groups given:

- **Resources**
- **Verbal presentation to the group of learners**
- **Workplace visits to study recent and emerging trends that are current to the industry.**

Assessment Method

Assessment may involve any of the following methods

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

LEARNING OUTCOME 2

Environmental Impacts on the Industry.

VCF 104.2

Describe the environmental impacts on the furniture industry.

Assessment Criteria

104.2.1 Describe the main areas of environmental impact on cabinet/furniture manufacture.

104.2.2 Describe the environmental impact on timbers required for cabinet/furniture manufacture.

104.2.3 Discuss effects of environmental impacts on individuals

All work practices must ensure that safe practices are adopted.

Conditions

Verbal presentation to the group of learners

Workplace visits to various sectors of Industry

Access to dust disposal equipment

Assessment Method

Assessment may involve any of the following:

- Oral questioning**
- Written testing**
- Computer managed testing**
- Individual and group written assignments**
- Active participation in group activity**

LEARNING OUTCOME 3

Skill Areas within the Cabinetmaking/Furnishing Industry

VCF 104.3

Identify skill/trade areas within the cabinet/furniture industry.

Assessment Criteria

104.3.1 Identify eight (8) of the recognized skill trades/areas.

104.3.2 Describe the type of work carried out under each identified skill trade/area.

104.3.3 Describe Industry Competency Standards and their relevance to the individual.

All work practices must ensure that safe practices are adopted.

Conditions

- **Verbal presentation to the group of learners.**
- **Workplace visits to various sectors of the Industry**

Assessment Method

Assessment methods may involve any of the following methods:

- **Oral questioning**
- **Written tests**
- **Computer managed testing**
- **Individual written assignments.**
- **Active participation in group activity.**

LEARNING OUTCOME 4

Introduction to Hand Tools and Equipment

VCF 104. 4

Identify, select, use, maintain and store hand tools and equipment used in the manufacture of cabinet/furniture components.

Assessment Criteria

- 104.4.1 Identify hand tools in common use in the Cabinet/Furniture Industry.**
- 104.4.2 Select hand tools for specified construction tasks.**
- 104.4.3 Demonstrate the safe use of hand tools in the workplace while constructing specified joints. Tolerances to be $\pm 1/16$ ".**
- 104.4.4 Demonstrate the safe cleaning and maintenance of tools and equipment specified.**
- 104.4.5 Select and fit relevant personal protective equipment required to be worn when operating and handling basic hand tools.**

All work practices must ensure that safe practices are adopted.

Conditions

Working individually, under close supervision, given:

- Resources**
- Tools, materials and equipment**

Assessment Methods

Assessment may involve any of the following:

- Correct and accurate completion of each practical task performed to the standard/tolerance as specified in the assessment criteria.**
- Completion of practical tasks**
- Oral questioning**
- Written assignment/test**
- Computer managed testing**

LEARNING OUTCOME 5

Manufacture Construction Joints

VCF 104.5

Manufacture a range of furniture construction joints.

Assessment Criteria

104.5.1 Use hand and power tools to safely manufacture six (6) of the following construction joints, without error.

- **“T” half lap**
- **cross halving/half/lap**
- **stopped housing**
- **stopped rebate**
- **flat miter**
- **edge miter**
- **dowel-butt and mitered**
- **“T” and corner bridle**
- **through single dovetail**
- **plate jointed-butt and mitered (biscuit)**

All work practices must ensure that safe practices are adopted.

Conditions

- **Workplace or simulated workplace conditions**
- **The learner will be provided with:**

Resource material

Learning guide

Tools and equipment

Assessment Method

- **Correct and accurate completion of each practical task performed to the standard/tolerance as specified in the assessment criteria.**

SUGGESTED REFERENCE MATERIALS

- **Hardware and manufacturers manuals**
- **Wheels of learning Level One Carpentry (NCCER)**
- **Carpentry and Building Construction, Fifth Edition. (Glencoe, McGraw-Hill)**
- **The Encyclopedia of Woodworking, Mark Ramuz, Editor, 2001. Chartwell Books Inc.**

RESOURCES

- **Workshop Facilities**
- **Tools of Trade**
- **Demonstration Units**

GRADES

Final Grades for this course will be assessed based on COM-FSM policy and 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

ATTENDANCE

The COM-FSM attendance policy will apply.

FEES

Upon registration into this course, the student will be charged a fee to cover the following program requirements:

- **Personal Tool Kit**
- **Class project materials**
- **Handout materials**