

Program Evaluation

November 2011

Programs Evaluated:

This program evaluation covers the:

- A. Certificate of achievement in Cabinet making / Furniture making

A. Program Goals:

Certificate of achievement in Cabinet making / Furniture making

Students will be introduced to the techniques and methodology of components involved in the construction of cabinet/furniture from working drawings, design, full size set outs, manufacturing, and installation of finished products.

Program Learning Outcomes (PLO)

Upon program completion the successful graduate will be able to competently perform the following skills:

1. Identify safety and occupational health requirements in Cabinetmaking/ Furniture making industry.
2. Use specified hand and power tools competently in making products to given specifications.
3. Demonstrate competence in complete production process from plans to final finishing.
4. Interpret information from blue prints or drawings.
5. Participate in the Cabinetmaking/ Furniture making trade.

B. Program History

Certificate of achievement in Cabinet making / Furniture making

The Cabinetmaking/Furniture Making started spring 2002. There were only 2 students who enrolled for the program that semester.

Milestones:

- 2002 - The first course was offered with two students.

Students have been involved in building small projects such as (coffee table, nail box, tool box, book selves, food storage cabinet, and etc... The students also build furniture to show during the Technology & Trade Exhibit in spring 2007.

C. Program Description

Certificate of Achievement in Cabinet Making/ Furniture Making

Students will be introduced to the techniques and methodology of components involved in the construction of cabinetmaking/ furniture making from working drawings, design, full size set outs, manufacturing, and installation of finished products.

D. Program Admission Requirements

High school graduate or GED certificate holder. Applicants must take the COM-FSM Entrance Test (COMET) and be accepted by the Admissions Board. Acceptance by the Admissions Board is based on the applicant's score on the COMET and other criteria as defined by the Admissions Board.

E. Program Certificate

Certificate of Achievement in Cabinet making/ Furniture making

General Education Core Requirements.....13 credits
BU 097 Intro to Entrepreneurship (3)
ESL 050 Technical English (3) or SS 100 World of Work (3)
MS 104 Technical Math (4)
CA 100 Computer Literacy (3)

Technical Requirements: -----21 credits

VCF 104 Introduction to Cabinetmaking/Furniture making (3)
VSP 153a Industrial Safety (1.5)
VCF 106 Plan Reading and Documentation (1.5)
VCF110 Domestic Construction (3)
VCF114 Commercial Construction (3)
VCF120 Workshop Administration (2)
VCF 124 Maintenance and safe use of Basic Static Machines, Power Tools, and Equipments (4)
VCF 132 Surface Preparation and Finishing Techniques (3)

Total Requirements..... . 34credits

F. Program Courses and Enrollment

Cabinet making/ Furniture making program course requirements are depicted in table 1 respectively.

Technical Requirements

VSP153a Industrial Safety
 VCF104 Introduction to Cabinet/ Furniture making
 VCF106 Plan Reading and Documentation.
 VCF110 Domestic Construction
 VCF 114 Commercial Construction
 VCF120 Workshop Administration
 VCF 124 Maintenance and Safe Use of Basic Static Machines, Power Tools, and Equipment
 VCF 132 Surface Preparation

General Education Requirements

MS 104 Technical Math
 ESL 050 Technical English or SS World of Work
 CA100 Computer Literacy
 BU 097 Introduction to Entrepreneurship

Table 1. Cabinet making/ Furniture making program courses*Source: COM-FSM General Catalog*

The table below shows the number of student enrolled in each class from fall 08 to fall 11.

Course	<i>Fall 08</i>	<i>Spring 09</i>	<i>Fall 09</i>	<i>Spring 10</i>	<i>Fall 10</i>	<i>Spring 11</i>	<i>Summer 11</i>	<i>Fall 11</i>
VCF 104	5	5	8		15	13		14
VCF 132		9	14	4	11	15		13
VCF 110		6			15	13		
VCF 124		8				14		14
VCF 106		5			15	14		15
VCF 120	4					11		15
VCF 114	6					14	5	15
VSP 153a	14		10	14	15			14

Table 2. Course enrollment rate by semester*Source: Program instructors class record book.***G. Program Faculty**

Full time faculty

1. Xavier Yarofmal – Assistant professor
M.Ed., San Diego State University
2. Salba Silbanuz – Vocational Instructor
USDOL Journeyman Certificate in Building Maintenance and Repair

Part time faculty

1. Stevenson Fredrick MHS Teacher
2. Kosaky Keller PICS Teacher
3. Peter Reosler Retired woodworker

H. Program Outcome Analysis

1. Program Enrollment

The table below indicates the enrollment data for the program.

<i>Semester</i>	<i>COA CM</i>
<i>Spring 2008</i>	<i>5</i>
<i>Summer 2008</i>	<i>5</i>
<i>Fall 2008</i>	<i>8</i>
<i>Spring 2009</i>	<i>4</i>
<i>Summer 2009</i>	<i>5</i>
<i>Fall 2009</i>	<i>5</i>
<i>Spring 2010</i>	<i>1</i>
<i>Summer 2010</i>	<i>2</i>
<i>Fall 2010</i>	<i>8</i>
<i>Spring 2011</i>	<i>17</i>
<i>Summer 2011</i>	<i>5</i>
<i>Fall 2011</i>	<i>20</i>

Table 3. Cabinet making/ Furniture making program enrollment per semester

Source: OAR Pohnpei Campus and IRPO data in COM-FSM website.

2. Graduation Rate

The table below indicated the number of certificate graduates from spring 2008 to spring 2010.

<i>Program</i>	<i>Sp08</i>	<i>Su08</i>	<i>Fa08</i>	<i>Sp09</i>	<i>Su09</i>	<i>Fa09</i>	<i>Sp10</i>	<i>Sp11</i>	<i>Total</i>
<i>Cabinet making/ Furniture making</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>3</i>

However, there is possibility that there are others who completed the program but was not reported. This happened when students did not apply for program graduation.

Table 4. Cabinet making/ Furniture making program graduation rate

Source: OAR Pohnpei Campus and IRPO data COM-FSM website.

3. Average Class Size

The ideal class size for each course was base on room size, equipment and safety concerns. Minimum is ten (10) and maximum is fifteen (15). There are some cases the class size exceed on its maximum to accommodate graduating students.

4. Students' Seat Cost

No available data gather from Campus IC, Technology and Trade Division chair and IRPO.

5. Course Completion Rate for the Program

Course	Fall 08	Spring 09	Fall 09	Spring 10	Fall 10	Spring 11	Summer 11	Fall 11	Mean percentile
VCF 104	5 out of 5, 100%	5 out of 5, 100%	8 out of 8, 100%		14 out of 14, 100%	12 out of 13, 92%		15 out of 15, 100%	98%
VCF 132		9 out of 9, 100%		4 out of 4, 100%		15 out of 15, 100%		13 out of 13, 100%	100%
VCF 110	3 out of 3, 100%	6 out of 6, 100%			14 out of 15, 93%	10 out of 13, 76%		13 out of 14, 92%	92%
VCF 124		8 out of 8, 100%				14 out of 14, 100%		14 out of 14, 100%	100%
VCF 114	6 out of 6, 100%				15 out of 15, 100%	13 out of 14, 92%	5 out of 5, 100%	15 out of 15, 100%	98%
VCF 106		5 out of 5, 100%			15 out of 15, 100%	14 out of 14, 100%		15 out of 15, 100%	100%
VCF 120	4 out of 4, 100%					13 out of 14, 92%		15 out of 15, 100%	97%
VSP 153a				10 out of 14, 71%	26 out of 27, 96%			47 out of 48, 97%	88%

Table 5. Course completion rate by semester

Source: Program instructors class record book.

6. Students' Satisfaction Rate

The data collected and shown are the student evaluation for course instructor. It was gathered at the office of Instructional coordinator at Pohnpei campus. The data show course code and semester, evaluation criteria, general weighted average, number of student evaluator and the legend which describe the degree of rated points.

<i>Student evaluation criteria for course instructor</i>	<i>Course / Semester</i>		
	<u>VCF 104 F11</u>	<u>VCF 106 F10</u>	<u>VSP 153a F09</u>
1. Keeps regular schedule every class day.	5	5	4.9
2. Shows interest in the subject.	4.7	4.8	5
3. Gives individual help as needed.	4.8	4.8	4.9
4. Avails himself/herself for student conference.	4.8	4.7	4.8
5. Welcomes questions, suggestions and discussion from students.	4.7	4.9	4.9
6. Shows interest and respect for students.	4.8	4.8	5
7. Helps the students in meeting individual learning needs.	4.9	4.7	4.8
8. Uses classroom lab fully.	4.7	4.8	5
9. Provides clear directions for assignment and instruction.	4.8	4.9	4.8
10. Grades fairly and frequently.	4.8	4.9	4.9
11. Makes the purpose of the course clear.	4.9	4.8	4.8
12. Talks clearly at an easy-to-follow speed.	4.8	4.9	4.9
13. Lessons are well paced with activity as well as lecture.	4.8	4.8	4.9
14. Makes the course interesting.	4.8	4.9	4.9
15. Textbooks were appropriate and helpful.	4.9	4.8	4.8
General weighted average	4.6	4.8	4.8
Number of students evaluator =	13	15	27

Legend:

5 = Always

4 = Usually

3 = Sometimes

2 = Rarely

1 = Never

<i>Student evaluation criteria for course instructor</i>	<i>Course / Semester</i>		
	<u>VCF 132 S11</u>	<u>VCF 110 F10</u>	<u>VCF 120 S10</u>
1. Keeps regular schedule every class day.	4.9	5	4.9
2. Shows interest in the subject.	4.9	4.9	4.8
3. Gives individual help as needed.	5	4.8	4.9
4. Avails himself/herself for student conference.	4.9	4.8	4.8
5. Welcomes questions, suggestions and discussion from students.	4.9	4.8	4.9
6. Shows interest and respect for students.	4.9	4.8	4.9
7. Helps the students in meeting individual learning needs.	4.8	5	4.8
8. Uses classroom lab fully.	4.9	4.8	4.9
9. Provides clear directions for assignment and instruction.	4.8	4.8	4.8
10. Grades fairly and frequently.	4.9	4.8	4.8
11. Makes the purpose of the course clear.	4.9	4.7	4.8
12. Talks clearly at an easy-to-follow speed.	4.9	4.8	4.9
13. Lessons are well paced with activity as well as lecture.	4.9	4.8	4.9
14. Makes the course interesting.	4.9	4.7	4.8
15. Textbooks were appropriate and helpful.	4.7	4.7	4.8
General weighted average	4.88	4.8	4.7
Number of students evaluator	15	15	8

<i>Student evaluation criteria for course instructor</i>	<u>VCF124 S11</u>	<u>VCF 114 S10</u>
	1. Keeps regular schedule every class day.	5
2. Shows interest in the subject.	4.7	4.5
3. Gives individual help as needed.	4.8	4.5
4. Avails himself/herself for student conference.	4.7	4.5
5. Welcomes questions, suggestions and discussion from students.	4.5	4.6
6. Shows interest and respect for students.	5	4.3
7. Helps the students in meeting individual learning needs.	4.6	4.8
8. Uses classroom lab fully.	4.9	4.5
9. Provides clear directions for assignment and instruction.	4.7	4.6
10. Grades fairly and frequently.	4.9	4.6
11. Makes the purpose of the course clear.	4.7	3.8
12. Talks clearly at an easy-to-follow speed.	4.8	4.5
13. Lessons are well paced with activity as well as lecture.	4.8	4.4
14. Makes the course interesting.	4.6	4.6
15. Textbooks were appropriate and helpful.	4.4	4.3
General weighted average	4.74	4.47
Number of students evaluator	14	14

Legend:

5 = Always

4 = Usually

3 = Sometimes

2 = Rarely

1 = Never

7. Employment Data – no available data

8. Transfer Rate – no available data

9. Programs' Student Learning Outcomes

Program Learning Outcomes [PLOs] for Cabinetmaking/ Furniture making programs have been assessed from fall 08 to summer 11.

1. Identify safety and occupational health requirements in the Cabinetmaking/ Furniture making industry.
2. Use specified hand and power tools competently in making products to given specification.
3. Demonstrate competence in complete production process from plans to final finishing.
4. Interpret information from blueprints or drawings.
5. Participate in the Cabinetmaking/ Furniture making trade

PLOs for the Cabinetmaking/ Furniture making are listed below:

10. Students' Learning Outcomes for Cabinet Making/ Furniture making Program Courses

SLO for all courses in Cabinet Making/ Furniture Making programs are assessed as the courses are offered in each semester. Written and performance exams are embedded in mid term and final exams to assess SLO for each course.

**CERTIFICATE OF ACHIEVEMENT IN CABINET MAKING/
FURNITURE MAKING**

VCF 110 Domestic Constructions

1. Identify various types of Cabinets and pieces of Furniture manufactured for Domestic use.
2. Identify the materials and components used to manufacture Cabinets and Furniture.
3. Identify the jointing methods used to manufacture Cabinets and pieces of Furniture.
4. Produce a working Drawing/Setout, cutting and material and costing list from a full size setout.
5. Manufacture a Cabinet and/or a piece of Furniture to suit a Domestic Application.

VSP153a Industrial Safety

1. Identify the responsibilities and personal characteristics of a professional craftsman.
2. Explain the role that safety plays in the construction crafts.
3. Describe what job-site safety means.
4. Explain the appropriate safety precautions around common job-site hazards.

5. Demonstrate the use and care of appropriate personal protective equipment.

VCF 104 Introduction to Cabinet making/ Furniture making

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

VCF106 Plan Reading and Documentation

1. Plan & Document reading
2. Drawing as means of communication
3. Scale drawings
4. Freehand Sketches
5. Full Size Setout drawn to specifications

VCF114 Commercial Construction

1. Describe and identify the use of patterns and templates and compare the various materials used to produce them.
2. Prepare a full size drawing of a project containing shaped parts and Draw patterns and templates off given full size and scale drawing
3. Cut shapes out of various materials using hand and power tools.
4. Identify holding devices used in the production of timber components.
5. Identify quality control procedures

VCF 120 Workshop Administrations

1. Demonstrate an understanding of estimation and costing procedures that a cabinetmaker would be required to perform in relationship to the successful operation of a workshop
2. Explain the benefits of sound production planning practices including quality control in a workshop environment.
3. Calculate an economical cutting plan and procedure for an item of furniture.

VCF 132 Surface preparation

1. Identify defects in timber surfaces required for finishing.
2. Select, prepare and apply stopping to timber surfaces to repair nail holes and defects.
3. Identify and describe the use of scrapers, abrasive papers, steam irons and chisels in the repair of defects and surface blemishes.
4. Identify and discuss properties of a range of timber finishing products.
5. Apply a range of clear finishes by various methods to suitably prepared timber surfaces.

VCF 124 Maintenance and Safe Use of Static Machines,
Power Tools and Equipment

1. Identify machines, equipment and their parts.
2. State the function of machines and equipment.
3. Perform basic setup and safely use machines and equipment.
4. Identify daily maintenance requirements of machines and equipment.
5. Demonstrate the safe operation and routine maintenance of specified portable powered tools.

I. a. Discussion on findings

The above program evaluation has resulted in the following findings:

1. Low enrollment
2. Low graduation and program completion
3. Low retention

I. b. Recommendations

1. Recruit students who are highly interested in cabinetmaking and academically ready for college certificate program.
2. Modify technical courses to allow more hands-on practice and/or on-the-job training.
3. Develop and implement student cooperation (incubated by the college) to provide students extended training skills by providing the college and community woodworking services.