

COURSE OUTLINE

GENERAL CARPENRTY FOR NON - MAJOR
COURSE TITLE

CT 110
DEPT. & COURSE NO.

I. COURSE DESCRIPTION:

This course covers the basic principles of construction involving foundations, interior and exterior trims, walls and roof framing, hand and power tools, materials, and production.

II. SEMESTER CREDITS: 3

III. CONTACT HOURS PER WEEK: <u> 2 </u>	<u> 3 </u>	<u> </u>
LEC	LAB	TOTAL

IV. PREREQUISITE; None

V. STUDENT LEARNING OUTCOME:

Upon completion of this course, Student will be able, with 65% accuracy to:

- 1, Compare carpentry-related training and job opportunities.

2. List and demonstrate general safety rules.

3. Select and compare common wood products.

4. Select and use basic carpentry tools and equipments.

VI. COURSE CONTENT:

- A. Industry Orientation
 1. Trainings
 2. Jobs
 3. Attributes and attitudes

- B. Safety
 1. General
 2. Personal
 3. Shop
 4. Tools & equipments

- C. Wood Products
 1. Plywood
 2. Lumber
 3. Board
 4. Panel

- D. Tools & Equipments
 1. Hand tools
 2. Portable power tools
 3. Equipments

5. Apply basic carpentry skills.

6. Demonstrate basic footing and foundation preparation and its construction methods.

7. Demonstrate basic floor, wall, ceiling, and roof framing techniques and its construction methods.

8. Demonstrate basic interior and exterior finishing techniques and compare the qualities of finished products.

E. Basic Skills

1. Measuring
2. Plan reading
3. Layout
4. Cutting
5. Fastening
6. Finishing

F. Footing & Foundation

1. Plan reading
2. Layout
3. Form making
4. Reinforcement
5. Concrete pouring

G. House Framing

1. Floor framing
2. Wall framing
3. Ceiling framing
4. Roof framing

H. Finishing

1. Interior finishing
2. Exterior finishing
3. Cabinet making
4. Painting

VII. MATERIALS AND EQUIPMENT:

1. Hand tools
2. Overhead projector
3. Transparencies
4. Shop equipments
5. Power tools
6. Hand outs
7. TV & VCR
8. Transportation
9. Required Materials

VIII. TEXT AND REFERENCES:

1. Text: Instructor's made hand outs

2. References:

- a. Wagner, Willis H. and Smith, Howard B. Modern Carpentry. South Holland, Ill: The Goodheart- Wilcox, 1996.
- b. Curriculum and Instructional Materials Center. Fundamentals of Carpentry. Stillwater, OK: Oklahoma Department of Vocational and Technical Education, 1999.

IX. METHOD OF INSTRUCTION:

- 1. Lecture
- 2. Discussion
- 3. Demonstration
- 4. Laboratory work
- 5. Field trip (Site observation)

X. METHOD OF EVALUATION:

Lecture presentation is tested on written test. Lab evaluation is based on skill development and knowledge acquisition.

Four criteria is used in evaluating projects and operation performance are:

- 1. Accuracy
- 2. Techniques
- 3. Appearance
- 4. Completion

The components used in the computation of the final grade are:

1. Participation.....	25%
2. Quizzes/Homework.....	10%
3. Mid – Term and Final Test.....	25%
4. Projects.....	40%
Total.....	100%

The transmutation of percent to letter grade are:

90 – 100.....	A
80 – 89.....	B
70 – 79.....	C
65 – 69.....	D
0 – 64.....	F

TASK LISTING SHEET

CT 110 GENERAL CARPENTRY FOR NON - MAJOR

Credits: 2 1 48
Lecture Lab Total Lab Hrs.

TASK

TIME

SLO #1:

6

1. After visiting at least two construction companies, develop a plan on how to succeed in the field of carpentry/construction.
2. Conduct a survey on opportunities available in carpentry/construction field in Palau.

SLO #2

4

1. Using activity sheet, distinguish safe and unsafe condition of the job site.
2. Apply basic safety precautions on all aspect of projects.
3. Demonstrate proper personal safety.

SLO #3

6

1. Make a list of all wood products available in all local hardware stores and compare its grade, quality, and specifications.
2. Select appropriate wood products for the require task.

SLO #4 & #5

12

1. On an assigned project, apply basic hand tools skills.
2. On an assigned project, apply basic power tools skills.
3. On an assigned project, apply basic shop equipments skills

SLO #6

6

1. After touring at two Construction sites, assess the footing and foundation construction process, compare type/method of construction method applied.
2. Demonstrate basic footing and foundation construction techniques on an assigned project.

SLO #7

6

1. Using activity sheet, complete floor framing, wall framing, ceiling framing, and roof framing plan
2. Apply methods used to frame a complete house/structure on a smaller scale model project.

SLO #8

8

1. On an activity sheet, select and compare the finishing works that are required to complete a house project.
2. Demonstrate basic skills needed to accomplish each finishing works.
3. Evaluate the level of skill needed to produce fine finishing work.

TOTAL

48

**Course Level Achievement
FORM A**

(Use for shop courses as well as other program courses)
CT110 GENERAL CARPENTRY FOR NON-MAJOR

Student's Name (print): _____ Semester/Year: _____
Instructor's Name (Print): _____

Directions: Evaluate the student using the rating scale below and encircle the appropriate number to indicate the degree of competency. The numerical ratings of 5, 4, 3, 2, and 1 are not intended to represent the traditional school grading system of A, B, C, D, and F. The descriptions opposite the numbers will determine the level of student performance for each of the competencies listed below.

- Rating Scale:**
- 5 Excellent
 - 4 Above average
 - 3 Average
 - 2 Below average
 - 1 Unacceptable

COMPETENCY	RATING
1. Recognize various carpentry-related training and job opportunities.	5 4 3 2 1
2. Recognize common wood products used in carpentry.	5 4 3 2 1
3. Use basic carpentry hand tools and equipment.	5 4 3 2 1
4. Apply basic carpentry skills in residential construction.	5 4 3 2 1

I certify that the student has completed all the competencies in this program and has achieved ratings as shown under each respective competency.

Instructor's signature

Date

COMPETENCY #1 Recognize various carpentry-related trainings and job opportunities.

5. Recognize all of the trainings and job opportunities available, both locally and off-island in the field of carpentry including wood working, cabinet making, millworks, form making and building construction with 90- 100% accuracy.
4. Recognize all of the trainings and job opportunities available, both locally and off-island in the field of carpentry including wood working, cabinet making, millworks, form making and building construction with 80- 89% accuracy.
3. Recognize all of the trainings and job opportunities available, both locally and off-island in the field of carpentry including wood working, cabinet making, millworks, form making and building construction with 70- 79% accuracy.
2. Recognize all of the trainings and job opportunities available, both locally and off-island in the field of carpentry including wood working, cabinet making, millworks, form making and building construction with 65- 69% accuracy.
1. Recognize all of the trainings and job opportunities available, both locally and off-island in the field of carpentry including wood working, cabinet making, millworks, form making and building construction with below 65% accuracy.

COMPETENCY #2 Recognize common wood products used in carpentry.

5. Identify and describe all of the local and imported wood products – lumber, boards, sidings, plywood, trims and moldings, and special order - commonly used in carpentry with 90- 100% accuracy.
4. Identify and describe all of the local and imported wood products – lumber, boards, sidings, plywood, trims and moldings, and special order - commonly used in carpentry with 80- 89% accuracy.
3. Identify and describe all of the local and imported wood products commonly used in carpentry with 70- 79% accuracy.
2. Identify and describe all of the local and imported wood products – lumber, boards, sidings, plywood, trims and moldings, and special order - commonly used in carpentry with 65- 69% accuracy.
1. Identify and describe all of the local and imported wood products – lumber, boards, sidings, plywood, trims and moldings, and special order - commonly used in carpentry with below 65% accuracy.

COMPETENCY #3 Use basic carpentry hand tools and equipment.

5. Use basic carpentry hand tools – fasteners, saws, planers, and smoothing, shaping, measuring, and layout tools – and equipment – saws, planers, and smoothing and shaping – properly and safely according to their recommended application procedures specified in the manual or specification with 90 – 100% accuracy.
4. Use basic carpentry hand tools – fasteners, saws, planers, and smoothing, shaping, measuring, and layout tools – and equipment – saws, planers, and smoothing and shaping – properly and safely according to their recommended application procedures specified in the manual or specification with 80 – 89% accuracy.
3. Use basic carpentry hand tools – fasteners, saws, planers, and smoothing, shaping, measuring, and layout tools – and equipment – saws, planers, and smoothing and shaping – properly and safely according to their recommended application procedures specified in the manual or specification with 70 – 79% accuracy.
2. Use basic carpentry hand tools – fasteners, saws, planers, and smoothing, shaping, measuring, and layout tools – and equipment – saws, planers, and smoothing and shaping – properly and safely according to their recommended application procedures specified in the manual or specification with 65 – 69% accuracy.
1. Use basic carpentry hand tools – fasteners, saws, planers, and smoothing, shaping, measuring, and layout tools – and equipment – saws, planers, and smoothing and shaping – properly and safely

according to their recommended application procedures specified in the manual or specification with below 65% accuracy.

COMPETENCY #4 Apply basic carpentry skills in residential construction.

5. Apply basic carpentry skills and techniques including plan reading, measuring and layout, fastening, cutting, and rough and finishing works in residential construction properly and safely at the beginners level with 90 - 100% accuracy.
4. Apply basic carpentry skills and techniques including plan reading, measuring and layout, fastening, cutting, and rough and finishing works in residential construction properly and safely at the beginners level with 80 - 89% accuracy.
3. Apply basic carpentry skills and techniques including plan reading, measuring and layout, fastening, cutting, and rough and finishing works in residential construction properly and safely at the beginners level with 70 - 79% accuracy.
2. Apply basic carpentry skills and techniques including plan reading, measuring and layout, fastening, cutting, and rough and finishing works in residential construction properly and safely at the beginners level with 65 - 69% accuracy.
1. Apply basic carpentry skills and techniques including plan reading, measuring and layout, fastening, cutting, and rough and finishing works in residential construction properly and safely at the beginners level with below 65% accuracy.