

## **Program information**

### **Program title Carpenter**

#### **Introduction**

The competency based curriculum guide for carpenter is designed to produce graduates equipped with knowledge, skills and attitudes required by the technicians having this occupation especially for the foreign employment.

Successful graduates of the program will be capable of installing and maintaining finishing jobs in current construction industry from domestic households to industrial or outdoor. The program focuses mainly on practical activity, which is performed on actual or simulated sites. Graduates of this program typically hold jobs as “carpenter”.

The features of this curriculum are:

1. The curriculum is designed on modular basis which gives enough flexibility in implementation.
2. The curriculum focuse practical experiences. However, the minimum theoretical knowledge which directly affects the task performance is included.

#### **Aims**

The aim of this training is to provide competent and confident carpenter who and provide effective services to the foreign industries.

#### **Duration**

The total duration of the course is 235 hrs.

#### **Entry**

Individuals desiring to enter this program must be:

#### **Requirements**

1. Youths who are seeking foreign employment and have passed grade 9 or above.
2. Citizens of Nepal with minimum 21 years of age but not exceeding 40.
3. Physically and mentally fit.

#### **Medium of instruction pattern of attendance focus of curriculum**

The medium of instruction for this program will be Nepali and English. However, all technical terminologies will be taught in English.

The trainees should have at least 95% attendance to be eligible to take test and receive completion certificate.

This is a competency-based curriculum. This curriculum emphasizes on performance of competencies.

Minimum 80% times is allocated for practical and remaining 20% time is allocated for related technical knowledge.

### Teaching learning methodologies student's evaluation details

**Demonstration followed by guided practice, independent practice and performance test should be the key methods besides illustrated talks, assignments, group works, simulations etc.**

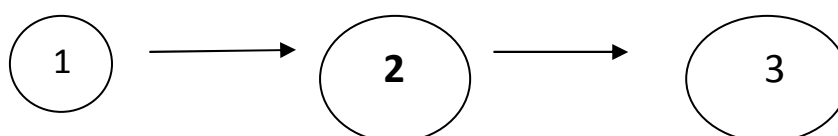
- Continuous evaluation of the trainees' performance is to be done by the related instructor/ trainer to ensure the proficiency over each competency under each module.
- Related technical knowledge learnt by trainees will be evaluated through written tests. The test items will mainly be objective types.

Trainees must secure minimum marks of 70% in an average of both theory and practical evaluations to obtain the course completion certificate.

### Course structure

The carpenter training program consists of 3 modules- "basic skill", "finishing works" and "project works". Each individual should complete these three modules to be become a competent carpenter.

s.no.	Module Name	Nature Pr. /th.	Time (Hrs.)		Total	Full marks		remarks
			Pr.	Th.		Pr.	Th.	
1.	Basic skill	Pr. /th.	46.25	7.25	53.50	100		
2.	Finishing works	Pr. /th.	63.00	4.00	67.00	150	100	500
3.	Project works	Pr. /th.	110.05	2.55	113.00	150		



### Grading system

The trainees will be graded based on the marks in percentage secured by them in tests/ evaluations.

- Grade "A": passed with 90% or above
- Grade "B": passed with 80% or below 90%
- Grade "C": passed with 70% and below 80%
- Grade "D": (failed): below 70%

### Trainer's qualification

- Vocational training institute graduate level III in related trade with minimum of 3 years field experience.
- Good occupational and instructional skills.
- Above qualification with 2 years experience in related foreign employment.

#### **Trainer-trainees ratio**

- 1:10 for practical instruction.
- 1:20 class room instruction.

#### **Course objectives**

Upon completion of this program, the trainee will be able to do the following:

- Given the working drawing, the trainee will be able to estimate the required material quantities for carpentry work.
- To use and maintain tools and equipments to the standard of competency and safety required in the trade.
- To prepare wooden carpentry items as per the given designs or drawings.
- Given any drawing, the trainee will be able to assemble all individual parts to make a final product following all safety measures.
- To perform interior decorative finishing carpentry jobs.
- Formative and summative evaluations are conducted to assess the performance of trainee.

#### **Assessment certification**

For certification of the training, an individual learner must have at least 95% attendance and minimum score of 70% in aggregate of theory & practical test. Pass percentage for both theory and practical tests are 70% however individual should pass both theory and practical tests separately.

#### **Module and tasks**

s.no	Skill	Theory credit hours (providing related information)	Practical credit hours(demonstration and assignment)	Total credit hours	Remarks
1.	Basic concept of drawing	1.25	0.55	2.20	
2.	Take approval letter from supervisor	0.30	0.30	1.00	
3.	Wear safety gears	1.00	0.30	1.30	
4.	Sharpen saw tooth, chisel	0.30	4.00	4.20	

	and planer blade				
5.	Cut timber using cross cut saw and compass saw	0.20	4.00	4.20	
6.	Cut timber using portable electric hand circular saw and ply wood using jig saw	0.35	4.00	4.35	
7.	Drill on wooden, metal and concrete surface using hand boring and drill machine	0.25	4.05	4.30	
8.	Plane wooden surface using jack planer and electric planer after deaning timber surface using scraper	0.25	5.40	6.05	
9.	Chamfering wooden surface using block planer and rasp file	0.15	1.45	2.00	
10.	Make tool box using butt joint and nail	0.30	6.00	6.30	
11.	Make lap joint using screw	0.20	3.25	3.45	
12.	Cut rabbet using rabbet planer and make rabbet joint	0.15	4.00	4.15	
13.	Cut groove using groove planer and make tongue	0.25	8.35	9.00	

	and groove joint				
14.	Make feather and groove joint	0.20	3.00	3.20	
15.	Make photo frame applying miter joint	0.20	5.40	6.00	

### Finishing work

1.	Make housed joint	0.20	3.40	4.00
2.	Make finger joint	0.20	4.40	5.00
3.	Make dovetail joint	0.20	4.40	5.00
4.	Make baby tool applying Tenon and mortise joint	0.20	7.40	8.00
5.	Press teak sunmica using Dendrite and glue	0.15	6.35	6.50
6.	install partition wall using Timber and applying silicon To fill the gaps	0.20	4.30	4.50
7.	install falls ceiling	0.15	3.45	4.00
8.	fix penal board on wall	0.15	3.45	4.00
9.	fix parquet on floor	0.15	3.45	4.00
10.	perform French polish and enamel paint	0.25	9.35	10.00
11.	cut glass using glass cutter	0.15	1.45	2.00

### Project works

1.	make door and window (Openable and sliding) applying Tower bolt, door closer and door Lock.	0.45	30.15	31.00
2.	Make stair case applying riser And tread, baluster, newel Post and hand rails	0.45	27.15	28.00
3.	Make open cupboard and Wardrobe	0.35	25.25	26.00
4.	Make table	0.20	12.40	13.00
5.	Make chair	0.30	14.30	15.00