Program Guide

for

Junior Wood Artisan

A short term Apprenticeship Curriculum for International Labour Organisation/ Time Bound Program and World Education/Brighter Future Project



Council for Technical Education and Vocational Training

CURRICULUM DEVELOPMENT DIVISION

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Introduction

The International Programme on the Elimination of Child Labour (IPEC) of the International Labour Organisation (ILO) has promoted a variety of measures to progressively eliminate child labour, giving priority to the eradication of the worst forms of child labour in Nepal. IPEC's interventions are implemented in partnership with the government, trade unions, employer's associations and non-governmental organizations. One of the innovative programmes promoted by IPEC include the Time Bound Programme (TPB), which aims to prevent and eliminate selected worst forms of child labour, as defined in ILO Convention No. 182, within a defined period of time.

The objective of the Time-Bound Programme (TBP) is to contribute to the Master Plan of His Majesty's Government of Nepal for the Elimination of Child Labour. The Time-Bound Programme is going to take various steps in eliminating the identified seven worst forms of child labour in Nepal: child porters, child domestics, children in trafficking, child ragpickers, children in carpet factories, children in mine/stone quarries and child bonded labour.

The educational interventions of the TBP in Nepal have been among the most effective instruments for the prevention of child labour and the rehabilitation of former child workers. The TBP & Brighter Future Programme (BFP) of World Education (WEI) measures promote access to free education and appropriate vocational training and apprenticeship opportunities for all children and youth removed from the identified worst forms of child labour. In this context, ILO and World Education (WEI) have taken the initiative to design apprenticeship-training programs in various trade areas for the older children working in the worst forms of child labour.

Rational of the programme

The vocational trainings in Nepal have resulted mixed outcomes. Although, there is a rapid proliferation of the technical and vocational training providers and the youth enrolment has been in increasing trend, there are some fundamental problems. Basically, the training programmes are much structured and the training delivery is made in institution-based environment. Similarly, there are minimum standard that needs to be maintained for enrolment. Considering the low literacy background of children engaged in the identified worst forms of child labour, the standard for admission to vocational training institutes is too high. Furthermore, many vocational training institutes have a very high cost. Therefore, ILO and WEI have taken the initiative to look more carefully into apprenticeship models as an alternative to vocational training for older working children.

According to IPEC Nepal and WEI, the term apprenticeship for TBP refers to supervised on-the-job training that provides practical skills and theoretical knowledge and also the experience of a work environment. It is a learning method that prepares a young person at least 14 years of age for a real job by giving him/her a set of well-defined occupational abilities through close supervision and guidance from a potential employer, or from a mentor. Apprenticeship can build confidence in young people, and remind them that they have a positive role to play in their community, and in their country.

Overall objectives

The overall objective of the programme is to eliminate exploitative and hazardous child labour by providing them with skills and knowledge to attain better employment and economic opportunities and linking them to national development efforts including economic, educational and labour market policies of Nepal.

Terminal objectives

After the completion of this course an apprentice will be able:

- to carve various types of wooden handicraft design,
- to carve various pattern in wooden handicrafts, and
- to perform finishing works.

Course description

This course is designed to help the apprentices to provide basic knowledge and skills on wood artisan. The apprentices will develop their competencies working in the wood workshop or site in an unstructured way. This course especially provides skills focusing on the wood products for commercial as well as domestic purposes.

Target group

This programme is targeted to the older children engaged in the worst forms of child labour who are above 14 years old. In Nepal, the worst form of child labour include;

- 1. Domestic child labourers,
- 2. Child porters,
- 3. Child bonded labourers,
- 4. Children involved in trafficking,
- 5. Rag picking children,
- 6. Child labourers in carpet industry, and
- 7. Child labourers in stone quarries and mines.

Group size

The number of apprentice can vary depending upon the facilities available with the apprenticeship-training providers. **Ideally, this should not exceed five in numbers**.

Entry criteria

An apprentice must be or have

- 1. Engaged in the worst form of child labour.
- 2. Between 14 to 18 years old.
- 3. Interest and commitment in apprenticeship training.
- 4. Current employer's/guardian's consent.
- 5. Basic literacy.

Duration

Three to five months (2 to 3 hours per day and 5 to 6 days a week) OR as per the agreement between apprenticeship provider and TBP implementing organisation. However, the theory and practical time should be arranged in the ratio of 20:80.

Medium of instruction Nepali.

Pattern of attendance

The apprentice should secure 90% attendance during the training period.

Certificate requirements

National Skill Testing Board (The Skill Testing Division of the Council for Technical Education and Vocational Training, CTEVT) according to its requirement administers skill tests and provides certificate to apprentice.

Apprenticeship provider's qualification

An apprenticeship provider must have:

- 1. Enthusiasm and motivation to train the older children in the worst form of child labour
- 2. Qualification and experience in training.
- 3. Proper tools, equipment and space for training.
- 4. Safe working environment.
- 5. Possibility of employment opportunity.

Trainees evaluation

The apprenticeship-training providers will continuously evaluate the apprentice based on their performance.

Equipment, tools and materials

Depending upon the frequency of uses and the number of apprentice the number/quantity of tools/equipment/material varies.

S.No.	Name of the tools/equipment	Units
	Measuring tape	
	Skraper	
	Scoper	
	Hammer	
	Hand saws	
	Screw driver	
	Sand paper	
	• Brushes	
	Plier	
	• Chisel	
	• Cross cut saw	
	Rip saw	
	Back saw	
	Dovetail saw	
	Coping saw	
	Key hole saw	
	Scratch awl	
	• T- bevel	
	Chapocha	
	• Ihancha	
	Sulicha.	

Summary of Duties and Competencies

G N	Duties and Competencies/Tasks/Skills		ime (in h	rs.)
S. No			Prac.	Total
A.	Handle tools and equipment.			
	A.1. Handle <i>Chapocha</i> .	1	2	3
	A.2. Handle <i>Ihancha</i> .	1	2	3
	A.3. Handle <i>Sulicha</i> .	1	2	3
	A.4. Handle cross cut / rip saw.	1	2	3
	A.5. Handle drilling machine.	1	2	3
	A.6. Handle chisel.	1	2	3
	A.7. Handle skraper.	1	2	3
	A.8. Take measurement.	1	2	3
B.	Carve designs.			
	B.1. Carve <i>Pali</i> design.	1	9	10
	B.2. Carve <i>Naga</i> design.	1	9	10
	B.3. Carve <i>Lagugee</i> design.	1	9	10
	B.4. Carve <i>Bhujipa</i> design.	1	9	10
	B.5. Carve <i>Kola</i> design.	1	9	10
	B.6. Carve dragon design.	1	9	10
	B.7. Carve <i>Jhhallar</i> design.	1	9	10
	B.8. Carve <i>Kerakhwa</i> design.	1	9	10
	B.9. Carve <i>Tikijhhya</i> design.	1	9	10
	B.10. Carve <i>Taktaki Kalash</i> .	1	9	10
C.	Make joints.			
	C.1. Make Butt joint.	1/2	2	21/2
	C.2. Make Lap joint.	1/2	2	21/2
	C.3. Make Dove Tail joint.	1/2	2	21/2
	C.4. Make Rebate joint.	1/2	2	21/2
	C.5. Make Mitre joint.	1/2	2	21/2
	C.6. Make Slope joint.	1/2	2	21/2
	C.7. Make Dado joint.	1/2	2	21/2
	C.8. Make Tenon and Mortise joint.	1/2	2	21/2
D.	Carve wood.			
	D.1. Carve base of oval plain statue.	1	9	10
	D.2. Carve base of double photo frame.	1	9	10
	D.3. Carve stick for shining bowl.	1	9	10
	D.4. Carve single photo frame.	1	9	10
	D.5. Carve incense stand.	1	9	10
	D.6. Carve base of statue (leaf, net).	1	9	10
Ε.	Perform finishing works.			
	E.1. Fix stand.	1	4	5
	E.2. Fix hook.	1/2	2	21/2
	E.3. Fix ring.	1/2	2	21/2
	E.4. Apply sand paper.	1/2	2	21/2
	E.5. Apply shellac.	1/2	2	21/2
	E.6. Apply varnish.	1/2	2	21/2

S. No	Duties and Competencies/Tasks/Skills		Time (in hrs.)			
5. NO			Prac.	Total		
	E.7. Apply black Japan.	1/2	2	21/2		
	E.8. Apply red Japan.	1/2	2	21/2		
	E.9. Apply brown Japan.	1/2	2	21/2		
	E.10. Assist to make gift-wrapping.	1/2	2	21/2		
F.	Maintain tools and equipment					
	F. 1. Maintain Chapocha.	1/2	2	21/2		
	F. 2. Maintain <i>Lhancha</i> .	1/2	2	21/2		
	F. 3. Maintain <i>Sulicha</i> .	1/2	2	21/2		
	F. 4. Maintain drilling machine.	1/2	2	21/2		
	F. 5. Sharpen chisel.	1/2	2	21/2		
G.	Communicate with other.					
	G.1. Communicate with supervisor.	1	2	3		
	G.2. Communicate with client.	1	2	3		
	G.3. Communicate with employer.	1	2	3		
	G.4. Communicate with colleagues.	1	2	3		
	G.5. Communicate with supplier.	1	2	3		
	G.6. Communicate with hardware shop.	1	2	3		
	G.7. Communicate with visitor.	1	2	3		
	G.8. Communicate with artisan.	1	2	3		
	G.9. Communicate with junior.	1	2	3		
Н.	Develop Professionalism.					
	H.1. Consult artisan.	1	2	3		
	H.2. Visit equipped working places/sights	1	3	4		
	H.3. Read related materials (Documents, manuals,	1	3	4		
	brochures etc.)					
	H.4. Seek trainings places /programs	1	4	5		
	H.5. Attend training/ seminar/workshops	1	2	3		
	H.6. Watch Audio-Visual	1	2	3		
	H.7. Browse World Wide Web.	1	2	3		
	Total	52	244	296		

Duty 1: Handle tools and equipment.

G.M.	G. santa i sa		D 1.4.17 1.4.1	Time	e (in hrs.	.)
S. No	Competencies		Related Technical Knowledge	Th.	Prac.	Total
1.	Handle Chapocha.			1	2	3
			identification of <i>Chapocha</i> .			
		\triangle	Function of Chapocha.			
		\triangle	Chapocha handling			
			procedure.			
		\triangle	Safety precaution.			
2.	Handle <i>Ihancha</i>		Importance and	1	2	3
			identification of <i>Ihancha</i> .			
		\triangle	Function of <i>Ihancha</i> .			
		\triangle	<i>Ihancha</i> handling procedure.			
		\triangle	Safety precaution.			
3.	Handle Sulicha	\triangle	Importance and	1	2	3
			identification of Sulicha.			
		\triangle	Function of Sulicha.			
		\triangle	Sulicha handling procedure.			
			Safety precaution.			
4.	Handle cross cut/ rip saw	\triangle	Importance and	1	2	3
			identification of cross cut			
			saw and rip saw.			
		\triangle	Function of cross cut saw			
			and rip saw.			
		\triangle	I			
			handling procedure.			
		\triangle	Safety precaution.			
5.	Handle drilling machine		Importance and	1	2	3
			identification of drilling			
			machine and bits.			
		\triangle	Function of drilling machine			
			and bits.			
			Drilling machine handling			
		_	procedure.			
	TT 11 1 1 1		Safety precaution.	1	2	2
6.	Handle chisel.		Importance and	1	2	3
			identification of chisel. Function of chisel.			
			Chisel handling procedure. Safety precaution.			
7.	Handle skraper.		Importance and	1	2	3
'.	Tandie skiaper.		identification of skraper.	1		
			Function of scraper.			
			Scraper handling procedure.			
			Safety precaution.			
8.	Take measurement.		Measurement system (FPS	1	2	3
0.	Take measurement.		and MKS/SI).	1	_	
			Conversion of measurement			
		تنا	Conversion of measurement	1	1	1

	units (Feet/Inch to Meter/		
	CM).		
	Measurement taking		
	technique.		

Duty 2: Carve designs.

S. No	Competencies	Related Technical	T	ime (in l	hrs.)
5. NO	Competencies	Knowledge	Th.	Prac.	Total
1.	Carve <i>Pali</i> design.		1	9	10
	_	identification of <i>Pali</i> design			
		□ Purpose of <i>Pali</i> design.			
		riangle Size and shape of <i>Pali</i> .			
		□ Pali carving procedure.			
2.	Carve <i>Naga</i> design.		1	9	10
		identification of <i>Naga</i> design			
		☐ Purpose of <i>Naga</i> design.			
		riangle Size and shape of <i>Naga</i> .			
		△ <i>Naga</i> carving procedure.			
3.	Carve <i>Lagugee</i> design.		1	9	10
		identification of Lagugee			
		design			
		□ Purpose of <i>Lagugee</i> design.			
		riangle Size and shape of <i>Lagugee</i> .			
		△ Lagugee carving procedure.			
4.	Carve <i>Bhujipa</i> design.		1	9	10
		identification of <i>Bhujipa</i>			
		design			
		☐ Purpose of <i>Bhujipa</i> design.			
		riangle Size and shape of <i>Bhujipa</i> .			
5.	Carve <i>Kola</i> design.		1	9	10
		identification of <i>Kola</i> design			
		□ Purpose of <i>Kola</i> design.			
		riangle Size and shape of <i>Kola</i> .			
6.	Carve dragon design.		1	9	10
		identification of dragon			
		design			
		□ Purpose of dragon design.			
		□ Dragon carving procedure.			
7.	Carve <i>Jhhallar</i> design.		1	9	10
		identification of <i>Jhhallar</i>			
		design.			
		□ Purpose of <i>Jhhallar</i> design.			
		☐ Size and shape of <i>Jhhallar</i> .			
		☐ <i>Jhhallar</i> carving procedure.		<u> </u>	
8.	Carve Kerakhwa design.		1	9	10
		identification of Kerakhwa			

S. No	Competencies	Related Technical	T	ime (in l	nrs.)
5.110	Competencies	Knowledge	Th.	Prac.	Total
		design ☐ Purpose of <i>Kerakhwa</i> design.			
		 Size and shape of <i>Kerakhwa</i>. <i>Kerakhwa</i> carving procedure. 			
9.	Carve <i>Tikijhhya</i> design.	 □ Importance and identification of <i>Tikijhhya</i> design □ Purpose of <i>Tikijhhya</i> design. □ Size and shape of <i>Tikijhhya</i>. □ <i>Tikijhhya</i> carving procedure. 	1	9	10
10.	Carve Taktaki Kalash.	 ☑ Importance and identification of <i>Taktaki</i> design. ☑ Purpose of <i>Taktaki</i> design. ☑ Size and shape of <i>Taktaki</i>. ☑ <i>Taktaki</i> carving procedure. 	1	9	10

Duty 3: Make joints.

S. No	Competencies	Related Technical	Time (in hrs.)		
5. NO	Competencies	Knowledge	Th.	Prac.	Total
1.	Make Butt joint.		1/2	2	21/2
	_	of butt joint			
		□ Safety precautions.			
2.	Make Lap joint.	☐ Importance and identification	1/2	2	21/2
		of lap joint.			
		□ Lap joint making procedure.			
		□ Safety precautions.			
3.	Make Dove Tail joint.	☐ Importance and identification	1/2	2	21/2
		of dovetail joint.			
		☐ Dovetail joint making			
		procedure.			
		☐ Safety precautions.			
4.	Make Rebate joint.		1/2	2	21/2
	_	of rebate joint.			
		□ Rebate joint making			
		procedure.			
		□ Safety precautions.			
5.	Make Mitre joint.		1/2	2	21/2
		of mitre joint			
		procedure.			
		☐ Safety precautions.			
6.	Make Slope joint.	☐ Importance and identification	1/2	2	21/2

S. No	Competencies	Related Technical	Time (in hrs.)		
5. NO	Competencies	Knowledge	Th.	Prac.	Total
		of slope joint			
		procedure.			
		□ Safety precautions.			
7.	Make Dado joint.		1/2	2	21/2
		of dado joint			
		□ Dado joint making			
		procedure.			
		□ Safety precautions.			
8.	Make Tenon and Mortise		1/2	2	21/2
	joint.	of tennon and mortise joint			
		□ Tenon and Mortise joint			
		making procedure.			
		□ Safety precautions.			

Duty 4: Carve wood.

C No	Commetencies	Related Technical	Ti	me (in l	rs.)
S. No	Competencies	Knowledge	Th.	Prac.	Total
1.	Carve base of oval plain		1	9	10
	statue.	□ Function			
		□ Carving procedure.			
		□ Safety precaution.			
2.	Carve base of double		1	9	10
	photo frame.	□ Function			
		□ Carving procedure.			
		□ Safety precaution.			
3.	Carve stick for shining		1	9	10
	bowl.	□ Function			
		□ Carving procedure.			
		□ Safety precaution.			
4.	Carve single photo frame.		1	9	10
		□ Function			
		□ Carving procedure.			
		□ Safety precaution.			
5.	Carve incense stand.		1	9	10
		□ Function			
		□ Carving procedure.			
		□ Safety precaution.			
6.	Carve base of statue (leaf,		1	9	10
	net)	□ Function			

S. No	No Competencies	Related Technical	Ti	me (in h	rs.)
5.110		Knowledge	Th.	Prac.	Total
		□ Carving procedure.			
		□ Safety precaution.			

Duty 5: Perform finishing works

S. No	Competencies	Related Technical	Ti	me (in l	nrs.)
S. 140	Competencies	Knowledge	Th.	Prac.	Total
1.	Fix stand.		1	4	5
		identification			
		□ Function.			
		☐ Faxing procedure.			
		☐ Safety precaution.			
2.	Fix hook.		1/2	2	21/2
		identification			
		□ Function			
		☐ Faxing procedure.			
		☐ Safety precaution.			
3.	Fix ring.		1/2	2	21/2
		identification			
		□ Function			
		☐ Faxing procedure.			
		☐ Safety precaution.			
4.	Apply sand paper	☐ Identification and importance	1/2	2	2½
		of sand paper.			
		□ Function of sand paper.			
		☐ Type coarse, medium and			
		fine).			
		△ Application procedure			
		☐ Safety precaution.			
5.	Apply shellac	☐ Importance and identification	1/2	2	2½
		of shellac.			
		☐ Function of shellac.			
		△ Application procedure			
		△ Safety precaution		_	
6.	Apply varnish	☐ Importance and identification	1/2	2	2½
		of varnish.			
		□ Uses of varnish.			
		△ Application procedure			
		△ Safety precaution	1./		21/
7.	Apply black Japan	☐ Importance and identification	1/2	2	21/2
		of black Japan.			
		△ Application procedure			
		☐ Safety precaution	1./		21/
8.	Apply red Japan	☐ Importance and identification	1/2	2	2½

S. No	Competencies	Related Technical	Time (in hrs.)		
5.110		Knowledge	Th.	Prac.	Total
		of red Japan.			
		△ Application procedure			
		□ Safety precaution			
9.	Apply brown Japan		1/2	2	21/2
		of brown Japan.			
		□ Safety precaution			
10.	Assist to make gift-	□ Purpose of package	1/2	2	21/2
	wrapping.	□ Packing process.			
		△ Labeling.			
		□ Safety precaution			

Duty 6: Maintain tools & equipment

S. No	Competencies	Related Technical	Tiı	Time (in hrs.)		
		Knowledge	Theo	Prac.	Total	
1.	Maintain Chapocha.		1/2	2	21/2	
		(concept only).				
		□ Procedure.				
		□ Safety precautions.				
2.	Maintain <i>Lhancha</i> .		1/2	2	21/2	
		(concept only).				
		□ Procedure.				
		□ Safety precautions.				
3.	Maintain Sulicha.	△ Metal used for <i>Sulicha</i>	1/2	2	21/2	
		(concept only).				
		□ Procedure.				
		□ Safety precautions.				
4.	Maintain drilling	Parts of drilling machine.	1/2	2	21/2	
	machine.					
		☐ Safety procedure.				
5.	Sharpen chisel.		1/2	2	21/2	
		(concept only).				
		□ Procedure.				
		□ Safety precautions.				

Duty 7: Communicate with other

S. No	Competencies	Related Technical	Time (in hrs.)		
		Knowledge	Th.	Prac.	Total
1.	Communicate with supervisor.	Meaning and importance of communication.	1	2	3
		☐ Type of communication (oral, sign/gesture and			
		written).			

S. No	Competencies	Related Technical	Time (in hrs.)		
B. 140		Knowledge	Th.	Prac.	Total
		 ☑ Oral communication techniques. ☑ Communication for cooperative/collaborative tasks. ☑ Learning and information sharing. ☑ Prior consultation on assigned work with the seniors. ☑ Uses of appropriate communication language (with higher and lower position staffs.) 			
2.	Communicate with client.	importance of listening and viewing the client's opinions (offering opinions, supporting statement and questions and clarification of the proposed job).	1	2	3
3.	Communicate with employer.	⊠ Refer to task 2	1	2	3
4.	Communicate with colleagues.	 ☑ Importance of interpretation and explanation of the proposed job with friends. 	1	2	3
5.	Communicate with supplier.	□ Refer to task 1	1	2	3
6.	Communicate with hardware shop.	□ Refer to task 2	1	2	3
7.	Communicate with visitor.	□ Refer to task 2	1	2	3
8.	Communicate with artisan.	□ Refer to task 4	1	2	3
9.	Communicate with junior.	 □ Demand and supply order. □ Bill / invoice. □ Material supply and delivery. 	1	2	3
10.	Receive telephone call.	 Meaning, importance and purpose of telephone. Telephone receiving technique. Etiquette of receiving telephone call. Message writing technique. 	1	2	3

Duty 8: Develop professionalism.

C NIa	Competencies	Related Technical		Time (in hrs.)		
S. No			Knowledge	Th.	Prac.	Total
1.	Consult artisan.		Importance of participating in career exploration activities with the artisan.	1	2	3
2.	Visit equipped working places/sights.		Importance of learning from different workplaces and site visits.	1	3	4
3.	Read related materials (Documents, manuals, brochures etc.)	[Importance of learning from trade relevant documents, manuals and other job related sheets.	1	3	4
4.	Seek trainings places /programs		Need of growing professionalism. Importance of career development opportunities inside and outside the organization.	1	4	5
5.	Attend training/ seminar/workshops.		Importance of trainings in career development. Possible training providers/institutes for refresher trainings.	1	2	3
6.	Watch Audio-Visual.		Familiarization of TVs channel/A/V aids. Importance of learning from A/V.	1	2	3
7.	Browse World Wide Web.		Familiarization with computer. WWW browsing techniques.	1	2	3