Government of Pakistan

National Vocational and Technical Training Commission

Prime Minister's Hunarmand Pakistan Program

"Skills for All"



Course Contents / Lesson Plan

Course Title: Computerized Braille Composition

Duration: 6 Months

Revised Edition

Trainer Name	
Course Title	Computerized Braille Composition
Objectives and Expectations	Employable skills and hands-on practice in Computerized Braille Composition
	As an instructor of computerized Braille composition, there are several strategies you can employ to motivate your trainees. Here are some suggestions:
	Main Expectations: In short, the course under reference should be delivered by professional instructors in such a robust hands-on manner that the trainees are comfortably able to employ their skills for earning money (through wage/self-employment)at its conclusion. This course thus clearly goes beyond the domain of the traditional training practices in vogue and underscores an expectation that a market-centric approach will be adopted as the main driving force while delivering it. The instructors should therefore be experienced enough to be able to identify the training needs for the possible market roles available out there. Moreover, they should also know the strengths and weaknesses of each trainee to prepare them for such market roles during/after the training.
	1. Set clear goals: Clearly communicate the learning objectives and goals for your trainees. Break down the learning process into achievable milestones, and track their progress along theway. This helps trainees see their advancement and stay motivated.
	Provide a supportive learning environment: Create a positive and inclusive atmosphere where trainees feel comfortable asking questions and expressing their challenges. Encourage peer interaction and collaboration to foster a sense of community and support among the trainees.

3.

Showcase real-world applications: Highlight the practical applications and benefits of computerized Braille composition. Demonstrate how these skills can open up employment opportunities, improve accessibility, and empower individuals with visual impairments to participate fully in society.

4.

Offer varied learning experiences: Incorporate a mix of teaching methods, such as lectures, hands-on exercises, groupprojects, and interactive discussions. This helps cater to different learning styles and keeps the training engaging and dynamic.

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5.

Provide constructive feedback: Offer regular feedback and praise when trainees make progress or achieve milestones. Constructive feedback helps them understand areas for improvement while recognizing their efforts and accomplishments.

6.

Gamify the learning process: Introduce gamification elements, such as challenges, quizzes, or competitions, to make the learning process more enjoyable and interactive. Reward trainees for their achievements and create a friendly competitive environment.

7.

Personalize the training: Recognize that each trainee has unique strengths, weaknesses, and learning preferences. Tailor

your instruction to accommodate individual needs and provide additional resources or guidance where required.

8

Guest speakers and success stories: Invite guest speakers whohave successfully used computerized Braille composition in their careers or personal lives. Hearing firsthand accounts of how these skills have made a difference can inspire trainees and provide role models.

9

Celebrate milestones and achievements: Acknowledge trainees' accomplishments by celebrating milestones or organizing recognition events. This can be as simple as certificates of achievement or a small ceremony to mark thesuccessful completion of the training program.

10.

Continuous learning opportunities: Emphasize the importance of lifelong learning in the field of computerized Braille composition. Encourage trainees to explore further resources, attend conferences, or participate in online communities related to accessibility and assistive technologies.

Remember, motivation is individual and can vary among trainees. By employing a combination of these strategies and adapting themto the specific needs of your trainees, you can create an engaging and motivating learning environment for computerized Braille composition.

Entry-level of				
trainees	Intermediate / Matric Science			
Learning Outcomes of the course	By the end of this course, students will be able to: Communicate ideas through artworks by selecting and applyingmedia techniques and processes, subject matter, and themes Demonstrate a verbal-working use of the vocabulary relating to computerized Braille composition Develop an understanding of the properties and the preparation of composition Respond aesthetically to artworks based upon their personalexperience and cultural values Understand the role and functions of computerized Braillecomposition.			
Course Execution Plan	The total duration of the course: 6 months (26 Weeks) Class hours: 5 hours per day Theory: 20% Practical: 80% Weekly hours: 25 hours per week Total contact hours: 650 hours			
Companies offering	jobs in the respective trade			
 transcription Pakistan association of blind, Pakistan blind resource foundation National books foundation of Pakistan Punjab and KPK brail Press. Special education department Social welfare ministry Pakistan HEIs OPDs International organization 				
No of Students	25			
Learning Place	Classroom / Lab			

Schedu	Module Title	Days	Learning Units	
led				
Weeks				
Week 1	Introduction to Braille and Assistive	Day 1	Introduction to Braille system	
	Technologies			
		Day 2	History and significance of Braille	
		Duy 2	Thistory and significance of Brance	
		Day 3	 Overview of assistive technologies for vindividuals 	isually impaired
			Introduction to Braille embossers and Bra	aille displays
		Day 4		
		Day 5	Academic linkages and need based analy	rsis
			Sy	

Week 2 Braille Basics	Day 1	- Braille alphabet and punctuationmarks	
		Day 2	Braille contractions and abbreviations
		Day 3	Writing and reading Braille characters

		Day 4	Braille formatting and layout
		Day 5	Revision and and reporting
Week 3	Braille Translation Software	Day 1	Introduction to Braille translationsoftware
		Day 2	
		Day 2	- Using Braille translation software to convert text intoBraille

		Day 3	Editing and proofreading Brailledocuments Echo system
		Day-5	Revision
Week 4	Braille Embossersand BrailleDisplays	Day 1	- Types of Braille embossers andBraille displays
		Day 2	Setting up and configuring Braille embossers and displays
		Day 3	 Using Braille embossers and displays for Braille output andinput

		Day 4	Printing material
			A round muchus
		Day 5	Revision
Week 5	Document Conversion	Day 1	Converting printed text into Brailleusing scanners and OCR software
		Day 2	Y
		Day 2	Importing and exporting Braille files
		Day 3	Editing and formatting convertedBraille documents
		Day 4	
		Day 4	Relevant market review
		Day 5	Revision
			Revision
Week 6	Braille Music	Day 1	Introduction to Braille music notation
	Notation		

		Doy 2	
		Day 2	Reading and writing music in Braille
		Day 3	In Person comments
		Day 4	Report writing
		Day 5	• Revision
Week 7	Nemeth Braille Code for Mathematics	Day 1	Introduction to Nemeth Braille Code
		Day 2	Transcribing mathematical equations and symbols into Braille

		Day 3 Day 4 Day 5	Using Nemeth coor Braille notation Revision/soft codes	le software formathematical
Week 8	Braille Printing and Production	Day 1		inting Brailledocuments
		Day 2	Braille production quality control	processes and
		Day 3	Braille bookbindir	ng and finishingtechniques
		Day 4	Revision	

		Day 5	Revision
Week 9	Assistive Technologiesfor Braille Users	Day 1	Overview of Braille notetakers and electronic Braille devices
		Day 2	Accessible software and apps forBraille users
		Day 3	Assistive technologies for Brailleliteracy and education
		Day 4	Revision
		Day 5	Revision
Week 10	Braille and Digital Accessibility	Day 1	Introduction to web accessibility andBraille

			Creating accessible Braille content forwebsites and digital platforms
		Day 3	Testing and evaluating the accessibility of Braille materials
		Day 4	Revision
		Day 5	Revision
Week 11		Day 1	Braille translation for languages otherthan English
		Day 2	Challenges and considerations forBraille translation in different languages

		Day 3	Resources and tools for multilingualBraille production
		Day 4	Revision
		Day 5	Revision
Week 12	Braille Transcription Guidelines and Ethics	Day 1	International guidelines for Brailletranscription
		Day 2	Ethical considerations in Brailletranscription
		Day 3	- Professional standards and certifications in Braille transcription
		Day 4	Revision
		Day 5	Revision

Wool 12	Computerized	Day 1	Overview of Computerized Braille Composition
WEEK 13	Braille	Day 1	Overview of Computerized Braine Composition
	Composition		
	Composition		
		Day 2	Computerized Brille Intro
		Day 2	Computerized Brine intro
		Day 3	Computerized Braille History
		-	
		D 4	
		Day 4	Review
		Day 5	
		Day 5	Report
Week	Overview of	Day 1	Overview of Computerized Braille
14	Computerized	J I	r
	Braille		

Week 15	Overview of Computerized Braille	Day 1	Overview of Computerized Braille
		Day 2	Computerized Braille
		Day 3	Computerized Braille uses
		Day 4	Report
		Day 5	Review
Week 15	Braille Composition	Day 1	Introduction to Braille Composition

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Week 16	Braille	Day 1	Braille Composition Overview
	Composition		l
		Day 2	Braille Composition Apps
		Day 3	Braille Composition Apps Uses
		-	
		Day 4	Revision
			Revision
		Day 5	Report
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Week	Computerized	Day 1	Computerized Braille Composition
16	Braille		F I E
10	Composition		
	Composition		

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Week 17	Computerized Braille	Day 1	Introduction to Computerized Braille
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		Doy 2	Computerized Braille Software
		Day 2	Computerized Braine Software
		Day 3	Computerized Braille Software Uses
		Dov. 4	
		Day 4	Report
		D 5	
		Day 5	Review
XX7 1	Comment 1	D 4	History of Communication 1 D 111
Week 17	Computerized Braille	Day 1	History of Computerized Braille
1/	Draine		

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Week 18	Braille	Day 1	Overview of Braille Composition
	Composition		
		Day 2	Braille Composition
		Day 3	Composition Web Braille
		Day 4	Revision
		<i>D</i> -	
		Day 5	Review
	75 111 YYY 1		
Week	Braille Web	Day 1	Introduction to web accessibility andBraille
18	Digital		
	Accessibility		

Wook 10	Web Braille	Day 1	Introduction to Web Braille
Week 19	Web Braine	Day 1	introduction to web Braine
		Day 2	Web Braille
		Day 3	Braille Composition
		Day 4	Report
		Day 5	Revision
Week 19	Digital Accessibility	Day 1	Introduction to web Braille

Week 20	Braille Software	Day 1	Braille Software introduction
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		D 4	D 111 0 6
		Day 2	Braille Software
		Day 3	Braille Software's Uses
		Day 3	Braine software a cases
		_	
		Day 4	Report
		Day 5	
		Day 5	Review
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Week	Braille and	Day 1	Introduction to web accessibility andBraille
20	Digital		·
	Accessibility		
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Week 21	Braille Devices	Day 1	Overview of Braille devices
		Day 2	Accessible software
		Day 3	Assistive technologies Devices
		Duy o	
		Day 4	Report
			Kepon
		D .	
		Day 5	Revision
Week	Braille and	Day 1	Introduction to web accessibility andBraille
21	Digital Accessibility		
	Accessionity		

Week 22	Braille Devices	Day 1	Electronic Braille devices
		Day 2	Apps for Braille users
		Day 3	Brailleliteracy and education
		D 4	
		Day 4	Review
		D 7	
		Day 5	Revision

Week 23	Technologies Braille Users	Day 1	Braille devices

	Day 2	Software Braille users
	Day 3	Technologies for Braille
	Day 4	Revision
	Day 5	Review

Week 24	Braille	Day 1	Overview of Braille
		Day 2	Braille users

	Day 3	Brailleliteracy
	Day 4	Report
	Day 5	Revision

Week 25	Braille Composition Users	Day 1	Electronic Braille devices
		Day 2	Apps forBraille users
		Day 3	Education

	Day 4	Revision
	Day 5	Review

Week 26	Braille Users	Day 1	Overview of Braille notetakers
		Day 2	Accessible software
		Day 3	Brailleliteracy and education
		Day 4	Review

	Day 5	Report

Tasks For Certificate in Computerized Braille Composition

Task No.	Task	Description	
	Note: The weekly distribution of tasks and practical exercises should be incorporated into the lesson plan to ensure hands-on practice and assessment of the trainees' skills. The lesson plan should also include assessments, quizzes, and projects to evaluate the trainees' progress throughout the course. Additionally, motivational lectures, success stories, and case studies can be included to inspire and engage the trainees in their learning journey		
2.		 Subject(s): Topic or Unit of Study: Grade/Level: Objective: 	
3.	Reading Rainbow Tip: Think about how you will INSPIREyour students and consider what you want them to take away from today's lesson plan.		
4. 5.		5. Time Allotment:	
6.		IMPLEMENTATION	
7.	Learning Context		
8.	order to complete this	: Have your students learned everythingthey need to know in lesson? This might bea good time to review some previous el prepared to learn something exciting and new	
9.	Procedure		

10.	a. Anticipatory Set	
11.	Reading Rainbow Tip: Do something to really GRAB their attention! Find a really great book, use a quick video clip, or a sing a song that relates to this lesson plan. Here's where you canspark a child's love for learning.	
12.	 b. Direct Instruction c. Guided Practice d. Check for	
13.	Reading Rainbow Tip: Ask lots of questions throughoutyour lesson to make sure	
14.	that your students are feeling comfortable with all of this exciting new information.	
15.	e. Independent Practice f. Closing	
16.	Reading Rainbow Tip: This is the perfect opportunity to openup the class for a	
17.	group discussion. Ask your students questions that help them realize the importance of today's lesson with questions like, "how will you use this information in your everyday lives?"	
18.	DIFFERENTIATED INSTRUCTION	
19.	Reading Rainbow Tip: Try to keep in mind that children learn in many different ways. By consciously thinking about this, you'll be able	
20.		

to use different teaching techniques to reach as many children aspossible in your classroom a. Visual Learners b. Auditory Learners c. Kinesthetic Learners d. ESL Students e. At-risk Students f. Advanced Learners	
MATERIALS & RESOURCES	
Reading Rainbow Tip: When choosing supplementary materials andresources for your lesson plan (books, videos, etc.), try to put yourself in the shoes of your students. Find resources that ENHANCE your lesson and make your instruction an inviting learning experience for your class! a. Instructional Materials: b. Resources:	
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	a. Visual Learners b. Auditory Learners c. Kinesthetic Learners d. ESL Students e. At-risk Students f. Advanced Learners MATERIALS & RESOURCES Reading Rainbow Tip: When choosing supplementary materials andresources for your lesson plan (books, videos, etc.), try to put yourself in the shoes of your students. Find resources that ENHANCE your lesson and make your instruction an inviting learning experience for your class! a. Instructional Materials: b. Resources:

The End