



JEWELLERY MAKER: SOUMAK
CURRICULUM
DURATION: 6 Months

Contents

Jewellery Maker : Soumak Curriculum

1.	Technical Training for Polio Affectees	3
2.	Introduction.....	6
3.	Competency Standards – Jewellery Maker: Soumak.....	6
4.	Overview of the program – Curriculum for Jewellery Making: Soumak.....	8
5.	Teaching and Learning Guide For Jewellery Maker – Soumak.....	10
5.1.	Module 1: Collection of required material for Soumak Jewellery making	10
5.2.	Module 2: Prepare Jewellery Design	13
5.3.	Module 3: Perform Cutting	15
5.4.	Module 4: Practice Soumak Work.....	17
5.5.	Module 5: Carry out finishing and polishing	20
5.6.	Module 6: Observe Health And Safety Measures.....	22
6.	General Assessment Guide – Jewellery Maker: Soumak.....	24
7.	Tools and Equipment.....	29
8.	Consumable Supplies.....	31



Technical Training for Polio- Affectees

The United Nations Industrial Development Organization (UNIDO) is the specialized agency of the United Nations mandated to promote industrial development and global industrial cooperation.

UNIDO's Education Programme strives to promote industry-relevant education and training for the sustainable industrial development of Pakistan.

The UNIDO Education Programme, in collaboration with the National Vocational & Technical Training Commission (NAVTTTC) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), has developed ten curricula as part of its Polio-Plus Initiative.

Amongst its main objectives, the United Nations' Polio-Plus Initiative is intended to aid in the rehabilitation of working-age disabled individuals by means of technical training programs in employable skills. With such training, it is projected that these individuals may then positively contribute, both socially and economically, within their respective communities.

In December 2013, teachers of selected Technical Educational & Vocational Training Authority (TEVTA) centres from the priority districts underwent such technical training for the specified ten curricula.

NAVTTTC delivered competency-based training to trainers of selected TEVTAs from several high-priority polio districts. The competency standards developed and validated during the curricula development process, now certified as National Standards, are to be used during

the training of polio-affected individuals. The workshop was markedly interactive in nature, focusing on group work and presentations while highlighting the intended goal of applicability in such competency-based trainings.

One notable trainer recounted his own experiences working with thousands affected by Polio in Pakistan. Noting their often absence from rigorous economic participation, he referred to these individuals as Pakistan’s ‘untapped resources’. The trainer also placed special emphasis on the work of disabled working-age individuals in the carpet industry and urged the other trainers to use this as an example during their own training to ensure the successful streamlining of polio-affectees into Pakistan’s workforce.

In order to sensitize participants and raise awareness on the matter, participants shared individual experiences linked to polio-affectees and working-age individuals. Most of the high-priority TEVTAs are located in smaller districts of Pakistan where trainers aimed to raise awareness through word-of-mouth. Additionally, they spoke of success stories and considered using these experiences as sources of inspiration during their own trainings for polio-affectees. Trainers were quick to suggest several untapped avenues to maximize the potential of this training.

It is imperative to note that although polio-affectees may require special attention and training, it must be delivered without compromising their dignity and self-esteem.

The idea is to train polio-affectees and equip them with the ability to earn a respectable living. The TEVTAs of these high-priority districts will carry out these trainings through the coordination and support of NAVTTC.

The pattern of the training is such that it will aim to merge the training of Life Skills Curriculum into the training polio-affectees will receive. Earlier in 2012, the Education Programme at UNIDO along with GIZ and NAVTTC developed a Curriculum on Life Skills.

The Life Skills component of this training will impart knowledge on the use of ‘soft skills’. This will result in employees who have:

Effective communication skills	A knack for internal and external customer care	Plain “common sense”	A good work ethic	Flexible attitude and are self-driven
--------------------------------	---	----------------------	-------------------	---------------------------------------

Since polio-affectees are disconnected from the mainstream workforce, their inclusion through the use of Life Skills Curriculum will make their transition into Pakistan's mainstream workforce smoother. If trainings consist of five sessions per week, three will consist of technical training for polio-affectees while the other two will incorporate 'Life Skills' trainings, thereby making it more effective and successful.

UNIDO hopes that the creation of these curricula will serve the purpose for which they were made i.e. the rehabilitation of working-age disabled individuals through technical training programs in employable skills, so that they may contribute socially and economically in their respective communities.

Furthermore, it is hoped that this training will serve to educate and sensitize local communities, particularly illiterate people & workers, on measures for prevention against fatal diseases and the benefits of early intervention while also mobilizing support in local communities for the polio eradication drive.

Name of course: Jewellery Making – Soumak

Introduction:

Humankind has always manipulated raw materials to make tools and decorations. Beginning with the adaptation of simple organic materials we advanced to shaping stones and from there moved on to working with metals. This would make the trade of hand-crafting jewellery one of the oldest known to mankind. One style of handcrafting jewellery, soumak, has been known for centuries. This is an ancient practice employed by goldsmiths/ metal workers and has persisted from ancient cultures through to the machine age. Soumak jewellery is famous for its originality. Its style of working wires is a very traditional one.

Overall objective of course:

- To provide comprehensive training to craft high quality handmade jewellery of an antique style.
- To promote the jewellery sector and bring it up to international standards.
- To reinvigorate Pakistani jewellery traditions in a new generation.
- To equip the trainee with professionalism in the jewellery sector.

Competencies gained after completion of course:

On completion of the course the trainees will be able:

- To practice jewellery making, producing high quality work.
- To contribute to the jewellery sector and promote it in the international market.
- To produce jewellery of an antique style using both precious metals and artificial materials.

Job opportunities available immediately and in the future:

- After completion of the course, students can be employed under jewellers to earn an income.
- Students can run their own businesses.
- Students can start online jewellery businesses, selling to both local and international markets.

Trainee entry level:

Primary/ Middle

Minimum qualification of trainer :

- 2 year course in jewellery designing & Making, with 3 years of experience
- Graduation in the relevant field

Medium of Instruction:

English and Urdu

Sequence of Modules

No.	Modules
01	Collection of required material for Soumak jewellery

	making
02	Prepare jewellery design
03	Perform cutting
04	Practice soumak work
05	Carry out finishing and polishing
06	Observe health and safety measures

Overview of the program – Curriculum for Jewellery making: Soumak

Module Title and Aim	Learning Units	Theory ¹ Days/hours	Workplace ² Days/hours	Timeframe of modules
<p>Module 1 Collection of required material for jewellery making: Soumak.</p> <p>Aim: Gain appropriate knowledge of precious and artificial metals for jewellery making.</p>	<ul style="list-style-type: none"> + Purchase required material + Melt and mix the different types of metals as required. + Draw tar (wire) + Draw patra (sheet) 	23hrs	97hrs	120hrs
<p>Module 2 Identify the type of jewellery</p> <p>Aim: Develop surface rendering techniques. Understand technical details to produce accurate sketches of jewellery</p>	<ul style="list-style-type: none"> + Make design: necklace + Make design: bangle + Make design: earpiece + Make design: ring (finger) 	22hrs	118hrs	140hrs

articles.				
Module 3 Perform cutting Aim: Gain appropriate skill to cut sheets of different metals.	<ul style="list-style-type: none"> ✦ Draw patterns as required by design ✦ Cut patterns as required by design ✦ Cut sheets as required by design 	23hrs	127hrs	150hrs
Module 4 Practice soumak work Aim: Understand basic concepts of soumak work on sheet. Enhance the work done by hand on jewellery.	<ul style="list-style-type: none"> ✦ Collect the required material ✦ Practice wire design on sheets ✦ Make different designs with wire ✦ Perform soldering 	18hrs	132hrs	150hrs
Module 5 Carry out finishing and polishing Aim: Gain appropriate knowledge of finishing and polishing. To enhance the quality of jewellery produced.	<ul style="list-style-type: none"> ✦ Perform finishing on the sides and the back of stone seat ✦ Perform polishing ✦ Perform stone setting. 	10hrs	110hrs	120 hrs
Module 6	✦ Ensure that the			

<p>Observe health and safety measures.</p> <p>Aim: Avoid possible safety hazards. Ensure general health safety.</p>	<p>proper work bench is used</p> <p>✚ Practice personal safety</p> <p>✚ Secure waste</p>	<p>40hrs</p>	<p>60hrs</p>	<p>100hrs</p>
---	--	--------------	--------------	---------------

4- Soumak Curriculum Content (Teaching and Learning Guide)

Module: 1

Title: Collection of metals and required material for soumak-jewellery making.

Objective of the Module:

Gain the appropriate knowledge of metals for jewellery making.

Understand the melting point of different metals for jewellery making.

Attain knowledge of drawing wires and sheets.

Duration: 120 hrs

Theory: 23 hrs

Practice: 97 hrs

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
1) Purchase required material.	The learner will be able to: Identify types of metals. Identify colours and shades of metals.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Basic Knowledge of precious and industrial metals. • Use of tools/ equipment. • Types, characteristics and properties of metals. • Metering system. • Safety precautions. <p>Ability to:</p> <ul style="list-style-type: none"> • Identify the types of metals. • Identify the characteristics and properties of metals. • Identify the colours and shades of metals. • Ensure the measurement, sizes, and gauges are in line with SOPs. • Ensure personal safety as per 	5+20= 25hrs	Precious ,semi-precious and artificial metals, Nitric acid, Measuring tools.	classroom

		work requirement. (Acid handling and fire guns)			
2) Melt and mix the different types of material as required	The learner will be able to melt metals using knowledge of their melting points, for the purposes of jewellery making.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Melting characteristics of metals. • Behaviour of metals during melting. • Behaviour of metals during cooling. • Safety precautions. • Impurities. <p>Ability to:</p> <ul style="list-style-type: none"> • Measure metals according to SOPs. • Carry out melting as required. • Identify material. • Pour metals as required. • Ensure personal during work as required. • Wear safety gloves required. • Operate melting equipment. • Maintain working environment. 	5+20=25hrs	Furnace, reza, pot for melting, gas torch, sohaga, gas cylinder, large size of pliers and tweezers, Fire proof gloves, Face mask, Goggles.	Lab
3) Draw Tar (wire)	Gain required knowledge of different gauges of wires.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Use of machinery and equipment. • Basic knowledge of gauges. • The annealing and hardening process. <p>Ability to:</p> <ul style="list-style-type: none"> • Make bar (<i>reiny</i>) according to 	7+28=35hrs	Precious or semi precious metal wires. Precious or semi precious metals. Draw plate (jantri) Wire puller	Lab

		<p>SOPs.</p> <ul style="list-style-type: none"> Describe the procedure of operating the jewellery rolling machine. Carry out annealing process. Ensure an appropriate bar size. Use draw plate (<i>jantri</i>). Make use of the appropriate wire size and gauge. Ensure personal safety, as required. 		(jamor) Gold smith hammer, Gold smith anvil and lubricating oil.	
4) Draw patra (sheet)	The learner will be able to stretch all metals according to their malleability.	<p>Knowledge of:</p> <ul style="list-style-type: none"> Use of machine and equipment. Basic knowledge of gauges. The annealing and hardening process. <p>Ability to:</p> <ul style="list-style-type: none"> Make bar (<i>reiny</i>) according to SOPs. Carry out annealing process. Ensure the appropriate bar size. Ensure the appropriate patra size and gauge. Ensure the appropriate patra weight. 	7+28= 35hrs	Precious or semi precious metal sheets. Rolling machine, Gold smith hammer, Gold smith Envil and lubricating oil.	Lab

		<ul style="list-style-type: none">• Ensure personal safety, as required.			
--	--	--	--	--	--

Module:2**Title: Prepare jewellery design****Objective of the Module:**

Develop surface rendering techniques.

Understand technical details to produce accurate sketches of jewellery article.

Duration: 140hrs

Theory: 22hrs

Practice: 118hrs

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
1) Make design: necklace	The learner will be able to design necklaces of different styles.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Design. • Measurements. <p>Ability to:</p> <ul style="list-style-type: none"> • Clarify and verify necklace design from client. • Modify design according to client's requirement. • Perform required measurements. • Ensure the design elements are accurate, and precise in size and shape. 	7+28=35hrs	1) A4 paper 2) Design book 3) Geometry box 4) Pencil 5) Fixed table	classroom
2) Make design: Bangle	The learner will be able to draw technical designs of bangles.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Understanding of design. • Knowledge of measurements. <p>Ability to:</p> <ul style="list-style-type: none"> • Clarify and verify bangle design 	8+30=38hrs	1) A4 paper 2) Design book 3) Geometry box 4) Pencil 5) Fixed	classroom

		<p>from client.</p> <ul style="list-style-type: none"> • Modify design according to requirement. • Perform required measurements. 		table	
3) Make design: ear piece	The learner will be able to draw designs for earpieces, using the mirror technique.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Design. • Measurements. <p>Ability to:</p> <ul style="list-style-type: none"> • Clarify and verify an ear piece design from client. • Modify design according to client's requirements. • Perform required measurements. 	6+27= 33hrs	<ol style="list-style-type: none"> 1) A4 paper 2) Design book 3) Geometry box 4) Pencil 5) Fixed table 	classroom
4) Make design: ring (finger)	The learner will be able to draw ring designs of accurate size.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Understanding of design. • Knowledge of measurements. <p>Ability to:</p> <ul style="list-style-type: none"> • Clarify and verify ring designs from clients. • Modify design according to client's requirement. • Perform required measurements. 	7+27= 34hrs	<ol style="list-style-type: none"> 1) A4 paper 2) Design book 3) Geometry box 4) Pencil 5) Fixed table 	classroom

Module:3

Title: Perform cutting

Objective of the Module:

Attain appropriate skill to cut sheets of different metals

Attain appropriate skill to handle different gauges of sheet.

Duration: 150hrs

Theory: 23hrs

Practice: 127hrs

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
1) Draw pattern as required by design	The learner will be able to draw patterns for jewellery articles by working with lines.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Basic lines. • Design. <p>Ability to:</p> <ul style="list-style-type: none"> • Create a design on butterfly paper. • Perform work with lines. • Ensure measurements are in line with design specifications. 	9+36= 45hrs	1) Pencil 2) Tracing sheet 3) Eraser 4) Fixed table 5) Table lamp	workshop
2) Cut pattern as required by design	The learner will be able to cut out designs for a jewellery articles.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Use of cutting tools. • Design. • Measurement. <p>Ability to:</p> <ul style="list-style-type: none"> • Cut drawing paper. • Ensure measurements are according to design specification. • Ensure personal safety during work 	9+39= 48hrs	1) Pencil 2) Tracing sheet 3) Eraser 4) Fixed table 5) Table lamp 6) Cutter.	workshop
3) Cut the sheet (patra) as required by	The learner will be able to cut sheets (patra) for a jewellery article.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Engraving. • Design. 	11+46= 57hrs	1) Saw 2) Gum for pasting	workshop

design		<ul style="list-style-type: none"> • Use of saw tools. • Use of hand tools. <p>Ability to:</p> <ul style="list-style-type: none"> • Paste patterns on sheets properly. • Ensure accuracy of design. • Engrave design elements according to markings. 		<ul style="list-style-type: none"> 3) Table lamp 4) Cutter 5) Drill machine 6) Precious or semi precious metal 	
--------	--	--	--	--	--

Module:4**Title: Practice soumak work****Objective of the Module:**

Understand basic concepts of soumak work on sheet.

Gain appropriate skill to work by hand on jewellery.

Duration: 160hrs

Theory: 18hrs

Practice: 132hrs

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
1) Collect required material	The learner will be able to collect the appropriate material required by specific designs.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Use of advanced measuring equipment. • Handling material. <p>Ability to:</p> <ul style="list-style-type: none"> • Ensure the weight of material is as required. • Measure the size of the wire and sheet. • Obtain the quantity of material relevant to design. • Arrange material, if in pieces, according to design • Ensure minimum wastage of raw material. 	5+25= 30hrs	1) Beam balance 2) Wire and sheet gauge 3) Pliers 4) Tweezers	workshop
2) Make different designs with wire(tar)	The learner will be able to make spirals and twisted shapes with wire.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Measurement • Joining wires and designing 	7+28= 35hrs	1) Sheet 2) Wire	workshop

		<p>patterns for wires.</p> <ul style="list-style-type: none"> • Interpreting overall layout of designs. <p>Ability to:</p> <ul style="list-style-type: none"> • Ensure the wires are manipulated according to specification • Perform arrangement ,if required, according to design requirements. • Use geometrical shapes effectively. 		<p>3) Hand drill</p> <p>4) Goldsmith hammer</p> <p>5) Wire cutters</p> <p>6) Pliers</p> <p>7) Tweezers</p> <p>8) Needles</p>	
3) Practice wire (tar) design on sheet (patra)	The learner will be able to practice wire work on sheets.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Measurement • Joining wires and designing patterns for wires. • Interpreting the overall layout of designs. <p>Ability to:</p> <ul style="list-style-type: none"> • Perform measurements (as required by design) of frames to apply wires on sheets. • Ensure arrangement of wires on sheets is according to design. 	9+36=45hrs	<p>1) Sheet</p> <p>2) Wire</p> <p>3) Hand drill</p> <p>4) Goldsmith hammer</p> <p>5) Wire cutters</p> <p>6) Pliers</p> <p>7) Tweezers</p>	workshop

				8) Needles	
4) Perform soldering	The learner will be to perform soldering to make wires and sheets into a single unit.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Different types of soldering guns. • Use of the soldering gun. • Use of firefighting equipment. • Fire pressure. <p>Ability to:</p> <ul style="list-style-type: none"> • Use different types of soldering guns. • Use firefighting equipment. • Understand fire pressure. 	8+34= 42hrs	<ol style="list-style-type: none"> 1) Soldering gun 2) LPG cylinder 3) Safety goggles 4) Safety apron 5) Soldering tools 	workshop

Module: 5

Title: Carry out Finishing and Polishing

Objective of the Module:

Attain appropriate knowledge of finishing and polishing.
Enhance the luster of jewellery.

Duration: 120hrs

Theory: 10hrs

Practice: 110hrs

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
1) Perform finishing on sides and back of stone seat	The learner will be able to clean and prepare the jewellery article for stone setting.	Knowledge of: <ul style="list-style-type: none">• Acid properties.• Cleaning techniques. Ability to: <ul style="list-style-type: none">• Ensure product colour is as required.• Remove dirt and dust from the product to ensure it is clean.• Make sure that all sides of the product have been given equal attention while polishing.• Remove acid from surface of work piece.• Use safety precautions effectively	9+36= 45hrs	1) Cleaning brush 2) Sulphuric acid 3) Gloves 4) Goggles 5) Sand paper	workshop
2) Carry out polishing	The learner will be able to perform polishing for the 'luster' of jewellery.	Knowledge of: <ul style="list-style-type: none">• Procedure of polishing.• Procedure of buffing.	5+25= 30hrs	1) Buff machine	workshop

		<ul style="list-style-type: none"> • Cleaning with chemicals. <p>Ability to:</p> <ul style="list-style-type: none"> • Select proper polish for the work. • Ensure the colour of the product meets specifications. • Apply polish evenly on all surfaces of the product. • Use appropriate buffing tools – to ensure proper shine. 		<ul style="list-style-type: none"> 2) Luster 3) Shining luster 4) Drum machine 5) Brush machine 6) Water for cleaning 	
--	--	---	--	--	--

Module: 6

Title: Observe Health and Safety Measures

Objective of the Module:

Avoid possible safety hazards.

Ensure general health safety.

Duration: 100hrs

Theory: 40hrs

Practice: 60hrs

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
1) Ensure that the proper work bench is used	The learner will be able to identify the proper tools and equipment to be used on the work bench.	Knowledge of: <ul style="list-style-type: none">• Basic knowledge of hand tools.• Use of tools/ equipment• Types of work bench Ability to: <ul style="list-style-type: none">• Arrange tools following standard operating procedures (SOP)• Store precious metals in specially made lockers to keep them safe• Work with hand tools as indicated by standard operating procedures (SOP)• Follow personal safety precautions as required	2+8= 10hrs		Training workshop
2) Practice personal safety	Employ the relevant safety measures to avoid possible safety hazards.	Knowledge of: <ul style="list-style-type: none">• The use of acid.• Use of tools and equipment. Ability to:	2+8= 10hrs		Training workshop

		<ul style="list-style-type: none"> • Ensure that potentially dangerous substances (HCL, HNO3, H2SO4, Natural gas) are used safely in a controlled environment. • Ensure safety measures are followed according to SOPs before the use of any sharp apparatus. • Use of proper tools/chemicals. • Ensure acid is carefully handled (using gloves and goggles). 			
3) Secure waste	The learner will be able to retrieve precious metals from waste.	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Procedure for recovery of precious metals • Chemical properties and characteristics of metals • Safety precautions <p>Ability to:</p> <ul style="list-style-type: none"> • Ensure precious metals are recovered. • Dispose, in a safe way, of any chemicals used. • Wear safety gloves as required. • Wear safety goggles as required • Follow safety steps during work (according to standard operating procedures) • Follow personal safety precautions as required by the work 	5+25=30hrs	<ol style="list-style-type: none"> 1) Cotton cloth 2) Table lamp 3) Tray 	Training workshop

General Assessment Guide For Jewellery Maker – Soumak

Module: 1

Title: Collection of metals and required material for soumak-jewellery making.

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
1) Purchase required material	5hrs	20hrs	<ol style="list-style-type: none"> 1) List the names of metals required for jewellery making. 2) Identify the characteristics and properties of metals used in jewellery making. 	<ol style="list-style-type: none"> 1) Multiple choice questions 2) Short question answers 	
2) Melt and mix the different types of metals as required.	5hrs	20hrs	<ol style="list-style-type: none"> 1) Demonstrate the melting and mixing of metals. 	<ol style="list-style-type: none"> 1) Direct observation: trainee must mix and melt metals appropriately. 	
3) Draw tar (wire)	6hrs	29hrs	<ol style="list-style-type: none"> 1) Describe how the metal wire is drawn up to the required thickness. 2) Describe the malleability of metals. 	<ol style="list-style-type: none"> 1) Demonstration by trainee. 2) Short question answers. 	
4) Draw patra (sheet)	7hrs	28hrs	<ol style="list-style-type: none"> 1) Describe how the metal sheet is drawn up to the required 	<ol style="list-style-type: none"> 1) Demonstration by trainee. 2) Short question 	

			thickness. 2) Describe the malleability of metals.	answers.	
--	--	--	---	----------	--

Module:2

Title: Prepare jewellery design

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
1) Make design: necklace	5.5hrs	29.5hrs	1) Demonstration: adjusting the length of necklace design, according to requirement. 2) Identify the styles of necklace design.	1) Direct observation of a practical demonstration. 2) Multiple choice questions	
2) Make design: bangle	4.5hrs	33.5hrs	1) Demonstration: adjusting the size of bangle design, according to requirement.	1) Direct observation of a practical demonstration.	
2) Make design: earpiece	5.5hrs	27.5hrs	1) Describe how the mirror technique is used to make identical ear pieces.	1) Direct observation of practical demonstration.	
3) Make design: ring (finger)	6.5hrs	27.5hrs	1) Direct observation of practical demonstration by trainee.	1) Direct observation of practical demonstration.	

Module:3**Title: Perform cutting**

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
1) Draw patterns as required by design	7.5hrs	37.5hrs	1) Demonstration: adjusting pattern over sheet. 2) Direct observation: drawing pattern on sheet.	1) Direct observation: practical demonstration by trainee, adjusting pattern on sheet.	
2) Cut patterns as required by design	7hrs	41hrs	1) Describe how the pattern will be cut. 2) Demonstration: taking measurements in line with design specification.	1) Demonstration by trainee. 2) Short question answers	
3) Cut sheets as required by design	8.5hrs	48.5hrs	1) Describe how the sheet is cut according to design. 2) Direct observation: carrying out the cutting procedure.	1) Short question answers. 2) Demonstrate by trainee.	

Module:4**Title: Practice soumak work**

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
-----------------------	--------------------------	-----------------------------	---	--------------------------------	------------------------

1) Collect required material	4.5 hrs	25.5 hrs	<ul style="list-style-type: none"> 1) Identify the weight of material required. 2) Identify that the quantity of material obtained is as required. 	<ul style="list-style-type: none"> 1) Multiple choice questions 2) Short question answers. 	
2) Make different designs with wire (tar)	4.5 hrs	30.5 hrs	<ul style="list-style-type: none"> 1) Describe adjusting wires gauges according to design. 2) List the floral and geometrical patterns. 	<ul style="list-style-type: none"> 1) Direct observation: a practical demonstration by the trainee, adjusting wire gauges. 2) Illustrative test requiring diagrams. 	
3) Apply wire (tar) design on sheet (patra)	4.5 hrs	40.5 hrs	<ul style="list-style-type: none"> 1) Demonstration: adjustment of wire designs on sheets. 	<ul style="list-style-type: none"> 1) Direct observation: practical demonstration by trainee, adjusting wire designs on sheets. 	
4) Perform soldering	4.5 hrs	37.5 hrs	<ul style="list-style-type: none"> 1) Describe how melting points of metals are determined for soldering. 2) Direct observation: carrying out soldering of metals. 	<ul style="list-style-type: none"> 1) Multiple choice questions. 2) Demonstration by trainee. 	

Module: 5

Title: Carry out Finishing and Polishing

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
1) Perform finishing on the sides and back of a stone seat	5 hrs	55 hrs	<ol style="list-style-type: none"> 1) Identify the sand paper numbers for sanding. 2) List the names of file sets for finishing. 3) Describe how to determine finishing for customers. 	<ol style="list-style-type: none"> 1) Demonstration by trainee. 2) Multiple choice questions. 3) Short question answers. 	
2) Carry out polishing	5 hrs	55 hrs	<ol style="list-style-type: none"> 1) Demonstrate the buffing of jewellery articles. 	<ol style="list-style-type: none"> 1) Direct observation: practical demonstration by trainee, buffing jewellery. 	

Module :6

Title: Health and Safety Measures

Learning Units	Theory Days/hours	Workplace Days/hours	Recommended formative assessment	Recommended Methodology	Scheduled Dates
1) Ensure that the proper work bench is used	10rs	10hrs	<ol style="list-style-type: none"> 1) List the tools for soumak jewellery making. 2) Describe the proper work bench for easy and comfortable work. 	<ol style="list-style-type: none"> 1) Multiple choice questions. 2) Illustration of the proper work bench by trainee. 	
2) Practice personal	10hrs	10hrs	<ol style="list-style-type: none"> 1) Identify tools and 	<ol style="list-style-type: none"> 1) Short question 	

safety			situations which can pose a danger during work.	answers.	
2) Secure waste	10hrs	10hrs	1) Direct observation of the trainee's ability to retrieve precious metals from waste.	1) Practical demonstration by trainee, retrieving precious metals from waste.	

5- List of Tools, Machinery & Equipment

s.no	Tools, Machinery & Equipment
01	Bench
02	Bench Pins
03	Tool Box
04	Drill Sets
05	Adjustable Saw Frame
06	Vernier Gauge Calipers
07	Degree Gauge
08	Gauge Plates
09	Finger Gauge Set or Ring Size set
10	Round Pliers
11	Half- Round Pliers
12	Flat Nose Pliers
13	Cutting Pliers Set
14	Parallel Pliers
15	Shear Cutters (1 Set)
16	Scissors
17	Cutters
18	Set of Squares
19	Stencil set
20	Drawing Paper

21	Polishers
22	Finger Gauge Set
23	Steel Rulers
24	Weighing Machine
25	Tweezer Set
26	Half Round Wire Drawplate
27	Round Wire Drawplate
28	Degree Gauge
29	Ultrasonic Cleaner
30	File set (All Grades)
31	Protective Eyewear
32	Protective Heat Resistant Gloves (One Pair)
33	Fire-fighting equipment
34	Furnace
35	Rolling machine
36	Lubricating oil
37	Gold Smith hammer
38	Leather roll
39	Wire puller
40	Steel ruler
41	Geometry box
42	Saw
43	Table lamp
44	Beam balance
45	Cleaning brush
46	Drum machine
47	Buff machine
48	Reja
49	Pot
50	Gas torch
51	Gas cylinder

6- List of Consumable Supplies

S.No	Consumable Supplies
01	Butter Paper
02	Drawing Pencil Set
03	Ball Point Pens
04	Double Sided Tape
05	Eraser
06	Masking Tape
07	Sand paper
08	Cleaning Liquids
09	Different Size Saw Blades(Assorted -1 Set)
10	Solders of Various Hardness and Flow (Assorted -1 Set)
11	Cutters Blades
12	Polishing Compounds (Assorted -1 Set)
13	Set of Shading Lead Pencils (H, HB, B, 2B, 3B , 4B. 5B, 6B, 7B)
14	Lubricating oil
15	Sketch book
16	Safety aprons
17	Lecture
18	Sohaga
19	LPG

Critical Aspect: Careful handling of tools and equipment. Safety of self and others, courteous behavior with customers.

Assessment Condition: The learner will have access to all tools. The learner will be required to communicate answers to the assessor.