







Sample Test Project

Skill 27-Jewellery

Category: Creative Arts and Fashion

Table of Contents

A. Preface	
B. Test Project	4
C. Marking Scheme	
D. Infrastructure List	
E. Instructions for candidates	
F. Health, Safety, and Environment	

Section -A

A. Preface

Skill Explained:

The Objective of the test project is that the competitor should complete each of the four technical modules with six criteria.

- -Similarity to Drawing.
- -Sawing.
- -Soldering.
- -Surface finish.
- -Dimensions
- -On time finishing

Eligibility Criteria (for IndiaSkills 2018 and WorldSkills 2019):

Competitors born on or after 01 Jan 1997 are eligible to attend the Competition.

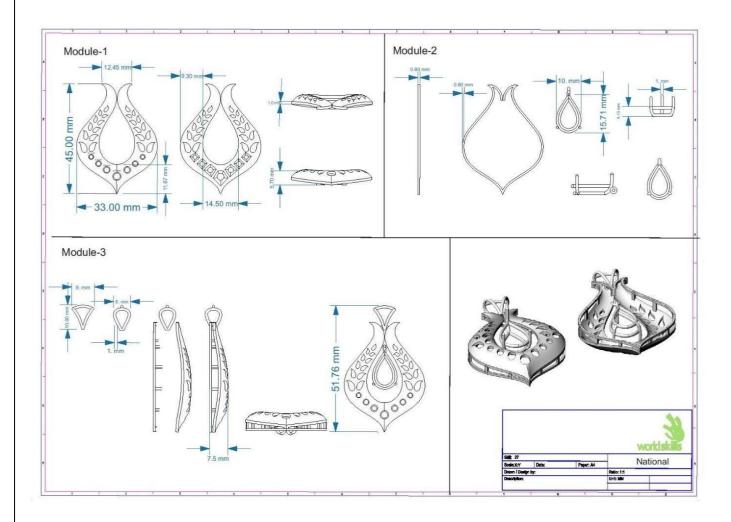
Total Duration: 16 hrs (spread over 3 days)

This Test Project proposal consists of the following documentation/files:

- 1. Test project PDF file (1:1) Drawing
- 2. Word File (test project details)
- 3. JPEG image (.jpg) Test project

Section - B

B. Test Project



Section -C

C. Marking Scheme

The Assessment is done by awarding points by adopting two methods, Measurement and Judgments

Measurement – One which is measurable
 Judgments - Based on Industry expectations

Measurements used to assess accuracy, precision, and other performance which can be measured in unambiguous way. Mark is awarded in full for a dimension with in tolerance and zero when it is out of tolerance.

Judgment is used to assess the quality of performance, about which there may be small differences of opinion.

Module 1

Competitor	Similarity to Drawing (10 marks)			Sawing (20 marks)				
	J1	J2	J3	Avg	J1	J2	J3	Avg
Α								
В								
С								
D								
E								
F								

	Soldring 00			Surface Finish (5 marks)		Diamension (10 marks)	On time Finishing (5 marks)	Total 50		
J1	J2	J3	Avg	J1	J2	J3	Avg			

Module 2

Competito r	Similarity to Drawing (5 marks)							S (7	oldring marks)		
	J1	J2	J3	Avg	J1	J2	J3	Avg	J1	J2	J3	Avg
А												
В												
С												
D												
Е												
F												

Surface Finish (2 marks)			Diamension (5 marks)	On time Finishing (2 marks)	Total (21 marks)	
J1	J2	J3	Avg			

Module 3

Competitor	Similarity to Drawing (5 marks)							S (13	oldring 3 marks) S)		
	J1	J2	J3	Avg	J1	J2	J3	Avg	J1	J2	J3	Avg
А												
В												
С												
D												
E												
F												

Surface Finish (3 marks)			Diamension (5 marks)	On time Finishing (3 marks)	Total (29 marks)	
J1	J2	J3	Avg			

Section - D

D. Infrastructure List

S.NO	Description	Specification	Item- No.	
1.	Indian Standard Work- Bench/Adjustable Chair	Please find attached picture	1 for each Person	
2.	Layout, Measuring & Marking Tools			
	Steel Rule	300 mm/ 12 inch		
	Compass/ Divider	100 mm/ 4 inch	812-1695	
	VernierCalipers	150 mm/ 6 inch	Mitutoyo	
	Permanent Marker / OHP	Red, Blue (Fine Point)		
	Pencil	НВ, В		
	Tri Square	50 mm Grade II		
	Surface Plate	100 x 150 mm Grade II		
	Glue (e.g. Fevi-Stick, Fevi-Quick)	- Commercial Pack		
	Waxed Glass Plate	100×100mm (6mm thick)		
	Scriber	150 mm		
	Scraper	150 mm	816-0160	
	Ring Sizer stick			
3.	Holding, Gripping & Material Manipulation Tools			
	Steel Tweezers/copper tweezers	Number 10	195-0412	
	Pin Vice	4 inch double sided	820-4350	
	Third hand (Double)	- Articulated arm	816-1900	

	Pliers (Flat, Nose, Bent Nose & Round)	- Plastic Grip	180-1225
	Flush Cutter	- Plastic Grip	180-1250
4.	Soldering Equipment		
	Soldering Plate/ Block	- Rotating plate	
	Soldering Torch	- Propane/ LPG	
	Flux (Safe) & Flux Plate	- Ceramic	
	Pickle/ Mordent & Bowl	- Ceramic/ Toughened Glass	
	Refractory Plate	- Pumice/ Ceramic	
	Soldering Pic		830-2211
	Soldering cotton		
5.	Drilling Equipment/ Machine		
	Flex Shaft Motor/ High Speed Spindle/Micro motor	- Fractional HP (1/10 to 1/3)	850-0496
	Flex shaft Hanger	- Telescopic	850-0501
	Drill Bits (0.5, 0.6, 0.7, 0.8, 1.0, 1.2 & 1.4 mm ø)	- HSS	
	Krause End Burrs (0.6,0.8,1.0mm ø)	Assorted	
	Spherical Burrs (0.5 to 2.0 mm stepped/ Preferred)	Assorted	
	Bud Burrs (Assorted/ Preferred)	Assorted	
	Cone Burrs (Assorted/ Preferred)	Assorted	
	Hart Burrs (Assorted/ Preferred)	Assorted	

Version 1- May2018 Skill-Jewellery

9

6.	Force Concentration Tools		
	Hammer (Riveting, Planishing, Goldsmith's)	- 50 to 150 gms	821-8235, 821- 8700, 821-7030
	Anvil	2-4 kgs	821-1655
	Chisels	- Tool Steel	
	Wooden/Plastic Hammer		
	Doming block and punch		
	Mandrels set		
	Ring/bangle Mandrel		
	Wire drawing plate		
7.	Setting, Beading & Engraving Tools		
	Beading Set	#1 to 12	
	Engraver Set (Assorted/ Preferred)	Gem Setting	166-8000
	Prong Pusher	3 inch	816-0100
	Stone Holder	3-5 prong	
	Shellac Block/ Setter's Pitch Block		
	Diamond Mounting Gauge Set		
	Stone Shovel		
	Gemstone Tweezers	Titanium	195-3282
	Wooden stick		
8.	Abrasive & Cutting Tools		
	Needle Files (Barrette, Crochet, Half round, Equalling, Marking, Round, Three Square, Warding)	150 mm	701-1660
	Riffler's file Set	100 -150 mm	

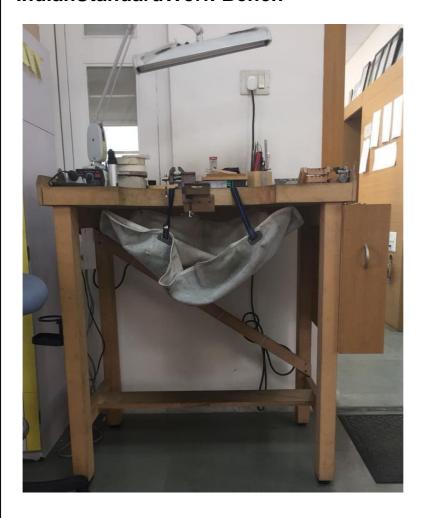
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	Flat File		770-0827, 770-0829
	Piercing Saw		187-1122
	Saw Blades (2/0, 3/0, 4,0,6/0 & 8/0)		186-0080 to 186- 0020
	Buffing Sticks &		
	Emery Paper P 180 to P 800		
9.	Observation & Perception Devices		
	Phase Balanced Table Lamp		
	Jeweller's Loupe	Magnification 10x	
	Magnification Glass	Illuminated	
	Optivisor	Magnification 2.5- 4 x	
	Observation Deck		
	Background Paper/ Graph Paper		
	Sylvet Cloth/ Chamois Leather		
	Acetone/ cleaning Fluid		
10.	Bench Organizers & Receptacles		
	File & Burr Stand		
	Ceramic Bowls		
	Bench Pin & Hardwood Block		
	1	L	
	Design sheet holder		
11.	Accessories & Additional Material		
	Blue Tack/ Mastic Compound		
	Plaster of Paris		
	Table Salt		

736-0610

Ring File

	Bee's Wax	
	Fabric Glue	
	Modelling clay	
	Painting brush	
12.	Personal Protection Equipment	
	Lab Coat	
	Side Protection Goggles	
	Ear Plugs	
	Face Mask	
	Fire Extinguisher	
	Shoes	
	Gloves	
	Сар	
13.	Cleaning	
	Table brush	
	SCOOP	
	Steel container	
	Magnet	
	Wagnet	
14.	Machinery	
	Rolling mill (sheet&wire)	
	Wire drawing bench	
	Ultra sonic Machine	
	Grinding machine	
15.	Gas	
	Gas Rs./ p.m/oxygen	

IndianStandardWork-Bench



Section -E

E. Instructions for candidates

- * Competitors must use only supplied materials.
- * After each module pieces should be submitted for marking
- *should follow the start and finishing time.

Section - F

F. Health, Safety, and Environment

- 1. All accredited participants, and supporting volunteers will abide by rules and regulations with regards to Health, Safety, and Environment of the Competition venue.
- 2. All participants, technicians and supporting staff will wear the required protective Personnel clothing. The Competitors must wear proper dress suiting the task and wear goggles while performing.
- 3. All participants will assume liability for all risks of injury and damage to property, loss of property, which might be associated with or result from participation in the event. The organizers will not be liable for any damage, however in case of Injury the competitor will immediately inform the immediate organizer for medical attention.
- 4. Proper ventilation in the work place
- 5. Running water should be near to work place.