





Sample Test Project

Regional Skill Competitions – Level 3
Skill 12 - Wall and Floor Tiling

Category: Construction and Building Technology

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Section - A

A. Preface

Skill Explained:

The work of tiller includes laying of tiles of ceramics, mosaics or natural stone on walls, floors staircases swimming pools, outside installations and facades to provide protective and decorative finishes.

A tiller generally works on commercial and residential projects from drawings and instructions. Successful tillers require endurance, concentration, an eye for details with continuing responsibility to work professionally in order to meet the requirements of the customer.

Eligibility Criteria (for IndiaSkills 2018 and WorldSkills 2019):

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

Total Duration: 12 Hrs in two days

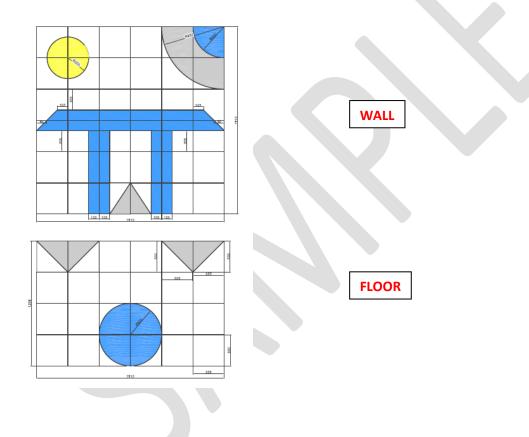
Section - B

B. Test Project

Wall for Tiling work is provided. For Floor the bed to be prepared by trainee Test Project is divided in two parts:

- 1. Wall Tiling Work
- 2. Floor Tiling Work

(**NOTE** - For drawing reading at least 1 hour before competition is required.)



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

Aspects are criteria's which are judged for assessment

The assessment will be for **two parts** of project separately:

- 1. Wall Tiling Work 7 Hours for performing practical
- 2. Floor Tiling Work 5 Hours for performing practical Cleaning time is included in practical

Marking: Measurement - WALL

Competitor Name:

Sub Criterion - Module - Wall Tiling Work

Aspe ct ID	Aspect Of Sub Criterio n	Ma x Ma rk	Aspect of Sub Criterion - Description	Requirem ent of Size	Resu It or Actu al Valu e	Mark Award ed
A1		3	Length of Module	1810mm		
A2	Dimensi	3	Height of Module	1810mm		
А3	on 2 2 2 2 Level 2 2		Radius of Circle	200mm		
A4			Radius of a bigger arc	602mm		
A5			Radius of a smaller arc	300mm		
B1			At the middle of first row of tile from bottom	0mm		
B2			At the top of third row from bottom	0mm		
В3			At the first row from top	0mm		

C1		2	Diagonal from bottom triangle to right corner of fourth row	0mm
C2	Surface Alignme	2	Diagonal from left corner of top first row to third row from bottom	0mm
C3		2	Diagonal from right corner of top first row to left corner of fourth row from top	0mm
CP1		2	Left side - side view	0mm
CP2		2	Left side - front view	0mm
CP3	Plumb	2	Right side - side view	0mm
CP4		2	Right side - front view	0mm
CP5		2	Middle of Third row from right side of module	0mm
D1		2	Distance from bottom of third row from bottom to bottom of the roof	200mm
D2		2	Distance from bottom of second row from top to top of the roof	200mm
D3		2	Width of right side pillar of the home at bottom first row	100mm
D4		2	Width of left side pillar of the home at bottom first row	100mm
D5	Detail	2	Distance of roof from right side of module at bottom of third row from top	95mm
D6		2	Distance of right corner of roof from left side of first row from left	102mm
D7		2	Angle at the top of module right side corner	90 degrees
D8		2	Angle at the top of module left side corner	90 degrees
	Marks for Wall	50	COTTICE	ucgices

Marking_:_Measurement - FLOOR

Competitor Name:

Sub Criterion - Module - Floor Tiling Work

Aspect ID	Aspect Of Sub Criterion	Max Mar k	Aspect of Sub Criterion - Description	Requiremen t of Size	Resul t or Actua I Value	Mark Awarde d
A1		3	Length of Floor	1810mm		
A2	Dimension	3	Width of floor	1206mm		
А3		3	Radius of circle	300mm		
B1	Lovel	2	First layer from wall (top)	0mm		
B2	Level 2		Last layer of floor from Wall A	0mm		
C1	Surface	2	Diagonal from left corner to right corner	0mm		
C2	Alignment	2	Diagonal from right corner to left corner	0mm		
D1		1	Distance of centre of the right side triangle from left side of second colom from left side module	299mm		
D2		1	Distance of centre of left side triangle from right side of module	299mm		
D3	Details	2	Right angle at bottom of wall and top of floor right side	90 degrees		
D4		2	Right angle at bottom of wall and top of floor left side	90 degrees		
D5		1	Right angle at right side corner away from wall	90 degrees		
D6		1	Right angle at left side corner away from wall	90 degrees		
	Total Marks for Floor					
Total Marks for Module – Wall & Floor Measurement - 75						

Marking: Judgment - WALL

Competitor Name:

Sub Criterion: Module - WALL

A	Aspect ID	Aspect Of Sub Criterion	Max Mark	Aspect of Sub Criterion - Description	Mark Awarded
Tiles 2 Industry Standard 4 Surpasses Industry Std. in some ways 4 Uniformity of Joints for vertical and horizontal, regular joints size of 2mm 0 Below Industry Standard 2 Industry Standard 4 Surpasses Industry Std. in some ways Overall Impression, Sharp Edge, Shape of Structure 0 Below Industry Standard 13 Overall Impression, Sharp Edge, Shape of Structure 15 Delow Industry Standard 16 Delow Industry Standard 17 Delow Industry Standard 18 Delow Industry Standard	J1		4		
2 Industry Standard 4 Surpasses Industry Std. in some ways J2 4 Uniformity of Joints for vertical and horizontal, regular joints size of 2mm 0 Below Industry Standard 2 Industry Standard 4 Surpasses Industry Std. in some ways Overall Impression, Sharp Edge, Shape of Structure 0 Below Industry Standard 2 Industry Standard Industry Standard Industry Standard		iviissing/cutting Oi		Below Industry Standard	
Jointing 4 Uniformity of Joints for vertical and horizontal, regular joints size of 2mm 0 Below Industry Standard 2 Industry Standard 4 Surpasses Industry Std. in some ways Overall Impression, Sharp Edge, Shape of Structure 0 Below Industry Standard 2 Industry Standard		Tiles	2	Industry Standard	
Jointing Delow Industry Standard Industry Standard Industry Standard Surpasses Industry Std. in some ways Overall Impression, Sharp Edge, Shape of Structure Below Industry Standard Industry Standard Industry Standard Industry Standard			4	Surpasses Industry Std. in some ways	
2 Industry Standard 4 Surpasses Industry Std. in some ways Overall Impression, Sharp Edge, Shape of Structure 0 Below Industry Standard 2 Industry Standard	J2		4		
4 Surpasses Industry Std. in some ways Overall Impression, Sharp Edge, Shape of Structure Below Industry Standard Industry Standard		Jointing	0	Below Industry Standard	
J3 4 Overall Impression, Sharp Edge, Shape of Structure 0 Below Industry Standard 2 Industry Standard			2	Industry Standard	
Finishing Structure Delow Industry Standard Industry Standard			4	Surpasses Industry Std. in some ways	
2 Industry Standard	J3		4		
		Finishing	0	Below Industry Standard	
A Surpassos Industry Std. in some ways			2	Industry Standard	
			4	Surpasses Industry Std. in some ways	
J4 Cleaning Of Tiles and Overall Module	J4		1.5	Cleaning Of Tiles and Overall Module	
Appearance		Appearance			
J4 1.5 Cleaning Of Area Around	J4		1.5	Cleaning Of Area Around	
Total Marks For WALL 15 Remarks -			15		

Marking:	Judgment -	FLOOR
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Competitor Name:

Sub Criterion: Module - FLOOR

Aspect ID	Aspect Of Sub Criterion	Max Mark	Aspect of Sub Criterion - Description	Mark Awarded
J1		3	Piece of tiles missing, wrong colour tiles placed, Cutting of tiles not done properly	
	Missing/Cutting Of Tiles	0	Below Industry Standard	
	Tiles	1	Industry Standard	
		2	Surpasses Industry Std. in some ways	
		3	Surpasses industry std. in many ways	
J2		3	Uniformity of Joints for vertical and horizontal, regular joints size of 2mm	
	Jointing	0	Below Industry Standard	
	301111111111111111111111111111111111111	1	Industry Standard	
		2	Surpasses Industry Std. in some/most ways	
		3	Surpasses industry std. in many ways	
J3		2	Overall Impression, Sharp Edge, Shape of Structure	
	Finishing	0	Below Industry Standard	
	i iiiisiiiiig	1	Industry Standard	
		2	Surpasses Industry Std. in some/many ways	
J4		1	Cleaning Of Tiles and Overall Module	
	Appearance			
J5		1	Cleaning Of Area Around	
Total Marks For FLOOR 10				
Remarks -	-			

TOTAL MARKS IN JUDGEMENT FOR MODULE – 25 MARKS

TOTAL MARKS FOR WALL AND FLOOR – 100 MARKS

Section - D

D. Infrastructure List

- Workshop Installation-Tools & Equipment positioned by Organizers
- Tool Kit-Tool & Equipment allowed to be brought by competitors for competitions

Infrastructure List - W	all & Floor Tiling
Workshop Installation	Quantity
Mortar Mixer	1
Water Tank	1
Water Bucket	1
Water Mug	1
Mortar Bucket	1
Waste skip on wheels/Wheel barrow	1
Shovel for cleaning of area	1
Workshop Installation – Tools	Quantity
Spirit Level 1m	1
Spirit Level 2m	1
Measuring Tape	1
Tile Cutting Machine	1
Trowels Big	1
Trowel Small	1
Rubber Hammer	1
Straight Edge 6 feet	2
Right angle big	1
Grout Pad	1
Rounder Big - (considering tile size)	1
Spacers	2 packet
Teeth Trowel	1
Spartech Machine if possible	1
Materials/ Consumables	Quantity
Plywood 2m * 1.5m (If table is possible)	1
Broom	1
Dustpan	1
Sponge	2
Tiles 300*300*6 mm white	70 No.s
Tiles 300*300*6 mm blue	35 No.s
Tiles 300*300*6 mm black	20 No.s
Tile grout - Chemical grout - 5kg	1 bag
Tile Adhesive / Tile fixo 25kg	2 bag

Mortar For Floor Bed 40 kg (Masala)	1 bag
Masking Tape 2 inch	1
Water	As required
Health & Safety Instruments	Quantity
Ear Plug	1 pair
Knee pad	1 pair
Nose mask	1
Goggle	1
Safety Shoes	1 pair
Hand Gloves	1 pair
Stationary	Quantity
Calculator	1
Scale 600mm	1
Scale 300mm	2
Protractor Small	1
Geometric Compass box	1
Marker Pen	5

AREA OF WORKSTATION -

Shape and Area -

The shape of workstation preferably to be 'Square'

- Workstation Area approximately 9sqm (3m*3m) or 100sq.ft (10ft*10ft).
- Platform for marking and cutting the tiles 8feet * 4feet (plywood platform) and in the form of table is preferable or minimum 200mm rise from the floor.
- Wall for test project Minimum 2000mm*2000mm is required with min.300mm width.

Section - E

E. Instructions for candidates

1. Time:

Drawing Reading – Either previous day or 1 hours before competition Field Working Time – 12 Hours in 2 days

- 1. For Wall 7 Hours approximately and
- 2. For Floor 5 Hours (Bedding time included) Note:
 - a) Before tiling on floors, kindly prepare the bed for floors with Mortar (Masala)
 - **b)** If Wall work is finished before given time, the competitor can start with Floor Tiling Module Work

Cleaning of Area – To be done in practical working time

- **2. Drawing –** Read the drawing carefully. Understand Dimensions, Alignment, Plumb, Level and Cutting of tiles.
- 3. Tiles -

Tile Size -

300 * 300 * 6 mm

Joint Size – 2mm (Spacers)

Tile Colour - Mark the color of tiles

4. PLANNING -

Before starting to the work kindly submit the planning stating activity and time for that. (This includes marking, cutting and time distribution for laying each layer of tile for wall & Floor)

5. Health, Safety and Environment

Safety requirement while constructing Wall and Floor Tiling -

During Cutting and Constructing Tiles for the Wall and Floor Project following PPE's are mandatory--

- Safety shoes- All The time during the competition
- Safety Helmet- All The time during cutting and constructing
- Safety Jacket- All The time during the competition
- Ear Plugs and Nose Mask- Compulsory during Cutting of Tiles
- Hand Gloves- Handling, cutting and pasting application of tiles on wall and floor
- Goggle- During Cutting
- Knee pad During Marking and Cutting









Safety Guidelines ---

Check for hazards at workplace and surrounding and notify the supervisor immediately Always inspect the machine before starting to work. Ensure that all the protection guards are in place.

Turn the motor off during cleaning and while carrying out adjustments of the machine and in emergency.

When operating the machine, keep your hands, ear at a safe distance

Concentrate on work and do not talk with others while working

Ensure regular cleaning of workplace

6. Cleaning -

Cleaning of module must be done in working time though 30 min extra are provided for cleaning of area around it.

- Clean all area
- Remove excess Material
- Clean tools & Keep on safe place

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.
- 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.