



Skill India
कौशल भारत - कुशल भारत



India**skills**



N · S · D · C
National
Skill Development
Corporation

Transforming the skill landscape

Sample Test Project

District / Zonal Skill Competitions

Skill- Carpentry

Category: Construction and Building Technology

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Section - A

A. Preface

Skill Explained:

Carpentry includes the production and Installation of structure framing. The Carpenter can read and interpret drawings, carry out the set out, measure, cut form joints, assemble, install and finish the assigned job to meeting the desired standards by working on the issued guidelines

The artifact is named as Carpenter. It includes face, case and frame. The frame has a small structure showing wall, both wall connected from corner and with 2 hip roof.

Eligibility Criteria (for IndiaSkills 2018 and WorldSkills 2019):

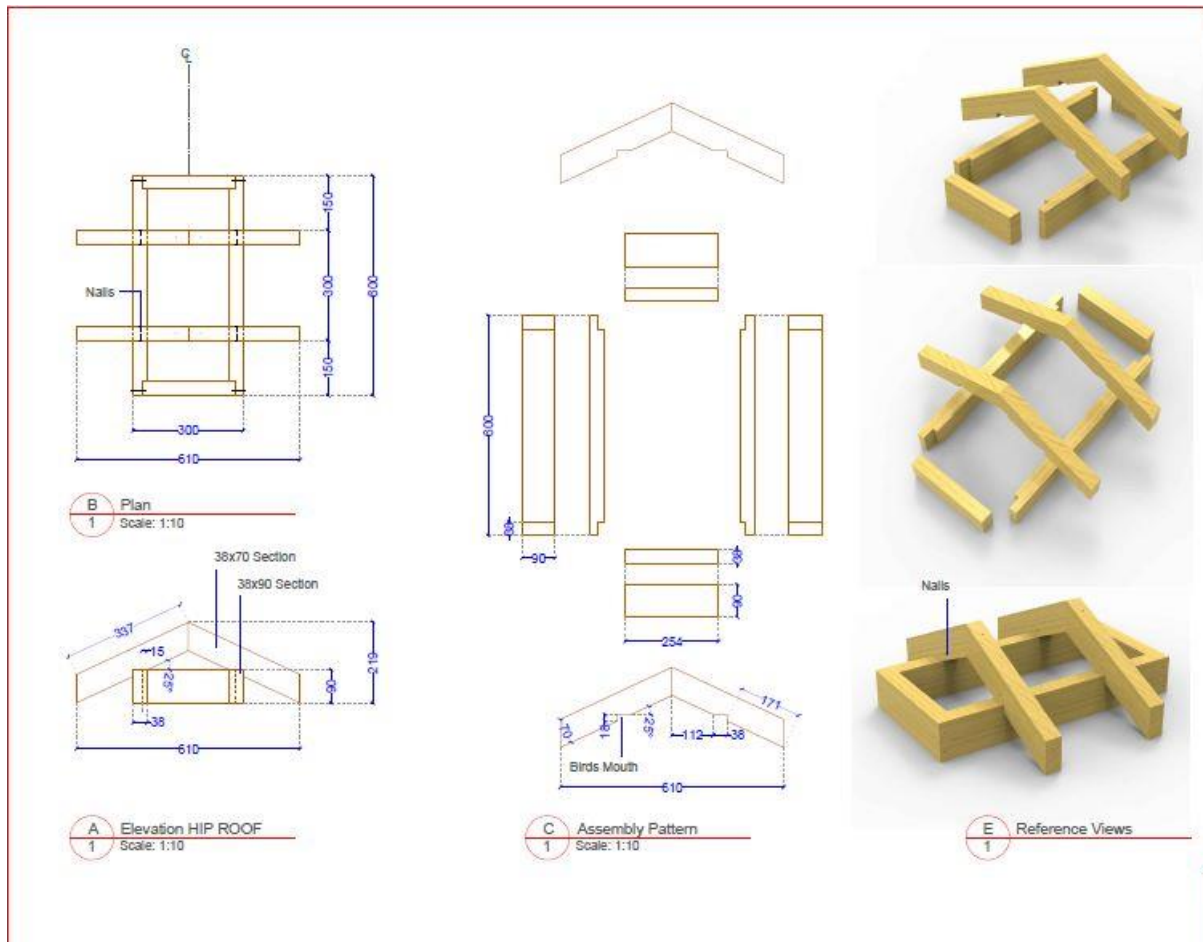
Competitors born on or after 01 Jan 1997 are eligible to attend the Competition.

Total Duration: 3 Hrs

Section - B

B. Test Project

Dimensions of Structure



Instruction for Competitors: -

Working Instructions

1. After face marking and setting out of the case competitors must bring them to the experts for marking.
2. Before gluing, must present the frames to the experts for marking
3. Hand tools can be used for finishing your work.
4. The competitors must keep track of the time by themselves.
5. On completion of allotted time, the Expert will ask all competitors to stop work.
6. The maximum working time is 3 hrs.

Section – C

C. Marking Scheme

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

Measurement –One which is measurable, is used to assess accuracy, precision, and other performance which can be measured in a robust way. It is used where there should be no ambiguity.

Judgment-Based on Industry expectations is used to assess the quality of performance, for which there may be small differences of view when applying the external benchmarks.

The scores from 0 to 3 are awarded for conformity with industry standards (score 1 stands for 1/3 and score 2 for 2/3 of the maximum mark allotted for the criterion).

- 0: performance below industry standard to any extent, including a non-attempt
- 1: performance meets industry standard
- 2: performance meets industry standard and surpasses that standard to some extent
- 3: excellent or outstanding performance relative to industry's expectations

Example-Judgment Marking

If maximum marks for Judgment criteria is 1 and if all 3 Experts (Juries) give 3 points to a candidate, the candidate will get 1 mark for that aspect. If 2 Experts give 3 and 1 Expert gives 2 points, then candidate will get $(2+2+1/9)*1 = 0.55$ marks for that aspect (out of 1).

Aspects are criteria's which are judged for assessment

Marking

Main criteria	Judgment	Measurement	Total
Main dimensions		16	16
Conforming od Drawing and joints	22	20	42
Assembly	22		22
Surface finish and material	20		20
Grand Total	64	36	100

MARKING SCHEME

A DIMENSIONS = 16.00		
	Measurement	Judgement
Width of structure	4	
depth of structure	8	
Height of Roof	4	
B Conforming to Drawing = 18.00		
Nails as per drawing	6	
Birds Mouth Cut as per drawing	6	
safety		6
C Face marking and Joints before gluing = 24.00		
Face marking for structure	4	
Face Marking for roof structure	4	
Joints before glue of structure and roof +Birds Mouth joints		16
D Joints after gluing = 16.00		
Structure joints after gluing		22
E Surfaces = 21.00		
Solid wood finish		10
F Use of Material = 5.00		
Extra Use of Material		10
Total	100	

Section - D

D. Infrastructure List

Workshop Installation-Tools & Equipment positioned by Organizers

Tool Kit-Tool & Equipment allowed to be brought by competitors for competitions

All equipment and material will be provisioned by the Organizers at site including raw material;

List of materials for one competitor

QTY	COMPONENT	LENGTH	WIDTH	THICKNESS	MATERIAL
Roof Frame					
2	wall sides	650	90	38	Pine wood
2	Wall sides	350	90	38	Pine wood
2	Roof structure	450	90	38	Pine wood
Additional Materials					
20	Nails	14 x 3			
1	Fevicol	50g			
2	Hammer	Standard size			
1	Hand Saw	Standard Carpenter tool			
1	Adjustable Right Angle	Standard carpenter equipment			
1	Protractor for measuring degrees	Standard carpenter equipment			
1,each	Chisel	1" and 1.5"			
1	Right Angle	Standard Carpenter			

Section – E

E. Instructions for candidates

For Construction of the task;

- After face marking and setting out of the case competitors must bring the items to the experts for marking.
- Before gluing, must present the frames to the experts for making.
- The surface should be fit for the polishing.
- The competitors must keep track of the timings.
- Once the duration of the Test project is over, all will stop work. Only those allotted additional time by Expert in case of illness or accidents will continue
- Self-possessed measuring equipment, rulers etc. can be held by the competitors after finishing the task for measurements.

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.