Test Project

Cabinetmaking

Submitted by:

Marcelo Salviato Erct – SENAI, Independent Test Project Designer

Kasper Bøgelund – CAD/CAM Teknik – SkillsDenmark, Independent Test Project Validator

Contents

Introduction to Test Project **3**
Description of project and tasks **4**
Instructions to the Competitor **4**
Material List **5**
Marking Schedule **8**

© WorldSkills International

Introduction to Test Project

The design of this tea table is inspired by traditional Chinese furniture and the rich cultural identity of China, combining elegance, functionality and refined craftsmanship. Conceived as both a practical and decorative piece, it celebrates the ritual of preparing and serving tea, while incorporating visual references connected to Chinese culture and to the host city of Shanghai.

At the top of the furniture, the serving tray becomes the main functional element of the design. It is intended to support the preparation and serving of tea, reinforcing the importance of tea culture as a symbol of hospitality, respect and connection. The tray includes decorative wood veneers with a circular motif representing the Horse, in reference to the Chinese Year of the Fire Horse. In Chinese culture, the horse is associated with energy, strength, movement and success, while the fire element reinforces ideas of passion, determination and transformation. This detail gives the piece a strong symbolic identity and connects the project to an important cultural reference.

The front of the table features red decorative door panels, inspired by traditional Chinese aesthetics, where red is commonly associated with good fortune, celebration and vitality. The central circular door pull is inspired by traditional Chinese ornamental symbols, representing harmony, prosperity and longevity. Beyond its practical function as a handle, it becomes an important decorative focal point and reinforces the cultural character of the furniture.

The side structures include framed compartments and internal shelves, offering storage while maintaining visual lightness and balance. The inclined side details are also inspired by the Shanghai skyline, particularly the distinctive silhouette of the Shanghai World Financial Center, often known for its “bottle opener” shape. These angled elements, together with the precise dovetail joinery, add technical complexity to the construction, requiring careful control of angles, proportions, layout and assembly.

One (1) of the distinctive technical features of the project is the dovetail joint detail, also inspired by the architectural profile of the Shanghai World Financial Center. This reference connects the furniture directly to the host city and transforms an iconic architectural landmark into a woodworking challenge, requiring Competitors to combine precision, interpretation and craftsmanship.

Overall, this tea table brings together cultural symbolism, traditional woodworking techniques and contemporary architectural references. It is a functional and decorative piece that challenges Competitors to demonstrate accuracy, creativity, technical skill and a deep understanding of furniture construction.

© WorldSkills International

Description of project and tasks

- The furniture must be produced in accordance with the presented drawing;
- The dovetail tray must be made manually, **handwork only**;
- No extra time will be allowed except for injuries and illness, the Competitors must organize their working time themselves;
- The surface must be prepared for finishing to a **maximum 240 grit**;
- You may present joints for assessment at any time **BEFORE** the applicable deadline shown in the **Marking Schedule**.
- If the deadline is missed, the item **WILL NOT BE MARKED**;
- The working time is 22 hours maximum according to the timetable.

Instructions to the Competitor

Before gluing the following parts must be presented at the **assessment table** for marking:

- **Dovetailed Tray**
- **Leg Frame**

Before gluing the following assemblies will must be placed on **your trolley/cart** and move to just outside of Competitor area. You must inform the Experts that its ready for assessment:

- **Top to Leg Frame** – Dowel connection
- **Carcase** – Lamellos, dowels or dominos connections
- **Carcase Side Frames** – Lamellos, dowels or dominos connections

© WorldSkills International

Material List

LEG FRAME

ITEM	QTY	DECRIPTION	LENGTH	WIDTH	THICKNESS	MATERIAL
01	1	Top	900	360	19	MDF Veneered
02	2	Front and back edges	950	21	20	Beech
03	2	Sides Edges	420	50	20	Beech
04	4	Legs	800	40	24	Beech
05	2	Bottom Side rails	420	40	24	Beech
06	2	Upper Side rails	420	40	20	Beech
07	2	Bottom rails	600	40	24	Beech

CARCASE

ITEM	QTY	DECRIPTION	LENGTH	WIDTH	THICKNESS	MATERIAL
08	2	Bottom/top	900	320	19	MDF Veneered 20mm Edge F&B
09	2	Vertical divisor	450	320	19	MDF Veneered 20mm Edge F&B
10	1	Shelf	480	270	19	MDF Veneered 10mm Edge Front
11	4	Vertical rails	500	50	15	Beech
12	2	Bottom rails	370	50	15	Beech
13	2	Upper rails	370	30	15	Beech
14	1	Back panel	500	500	9	MDF Veneered

© WorldSkills International

DOOR

ITEM	QTY	DECRIPTION	LENGTH	WIDTH	THICKNESS	MATERIAL
15	6	Edges	580	25	12	Beech
16	2	Panel	480	260	17	MDF Veneered

TRAY

ITEM	QTY	DECRIPTION	LENGTH	WIDTH	THICKNESS	MATERIAL
17	2	Front/Back	500	60	12	Beech
18	2	Sides	420	50	12	Beech
19	1	Panel	500	420	6	MDF Veneered
20	6	Venner	500	220	-	Oak Veneer

© WorldSkills International

HARDWARE

ITEM	QTY	DESCRIPTION	SIZE	MATERIAL
21	4	Extruded brass butt hinges		
22	24	Screws for hinges		
23	2	Twin ball catch	43 mm	
24	8	Screws – door catch		
25	4	Screws – Fixing carcase to leg frame	4x40 mm	
26	6	Dowel – top to leg frame	8x30 mm	
27	4	Acrylic for shelf (4 edges polished)	300x184x6 mm	
28	16	Shelf Acrylic/glass suport		
29	2	Synthetic Leather/Fabric for doors	480x250	
30	1	3D Printed Handle - pair		
31	4	Button head screw – for handle	3,5x25	
32	1	Laser cut logo venner (horse)	Pattern cutted by laser	

EXTRAS

ITEM	QTY	DECRIPTION	LENGTH	WIDTH	THICKNESS	MATERIAL
33	1	MDF – for cutting venner	600	450	9	MDF standard
34	2	MDF – for jigs	600	320	15	MDF standard
35	1	MDF – for drawing	900	650	9	MDF standard
36	4	For familiarization C-2	320	40	24	Beech
37	2	For familiarization C-2	320	60	12	Beech

© WorldSkills International

Marking Schedule

COMP. DAY	DEADLINE	MUST BE HANDED		CHECK LIST
C1 C2	During the day 1 and during the day 2	Dovetail Tray	Joints BEFORE Gluing	
		Leg Frame	Joints BEFORE Gluing	
		Top to Leg Frame Dowel	Joints BEFORE Gluing - Visual Check	
C2	By end of day	LEG FRAME and TOP	Joints AFTER Gluing Dimensions Conformity Surface	
C3	On Day 3, before 3:30 pm (17h30 of Competition)	TRAY	Joints AFTER Gluing Dimensions Conformity Surface Veneer	
		DOOR	Joints AFTER Gluing Dimensions Conformity Surface	
	During the day 3	Carcase connections	Joints BEFORE Gluing - Visual Check	
		Carcase side frames	Joints BEFORE Gluing - Visual Check	
	By end of day 3	CARCASE	Joints AFTER Gluing Dimensions Conformity Surface	
C4	By end of day 4	Surfaces after assembly		
		Movable Parts		
		Conforming to Drawing		
		Use of material		
		Health and Safety		

If the deadline is missed, the item WILL NOT BE MARKED.

Competitor sign: _____

© WorldSkills International