

# WORLD SKILLS STANDARD SPECIFICATION

## Skill 24 Cabinetmaking





# THE WORLDSKILLS STANDARDS SPECIFICATION (WSSS)

## GENERAL NOTES ON THE WSSS

The WSSS specifies the knowledge, understanding and specific skills that underpin international best practice in technical and vocational performance. It should reflect a shared global understanding of what the associated work role(s) or occupation(s) represent for industry and business ([www.worldskills.org/WSSS](http://www.worldskills.org/WSSS)).

The skill competition is intended to reflect international best practice as described by the WSSS, and to the extent that it is able to. The Standards Specification is therefore a guide to the required training and preparation for the skill competition.

In the skill competition the assessment of knowledge and understanding will take place through the assessment of performance. There will not be separate tests of knowledge and understanding.

The Standards Specification is divided into distinct sections with headings and reference numbers added.

Each section is assigned a percentage of the total marks to indicate its relative importance within the Standards Specification. The sum of all the percentage marks is 100.

The Marking Scheme and Test Project will assess only those skills that are set out in the Standards Specification. They will reflect the Standards Specification as comprehensively as possible within the constraints of the skill competition.

The Marking Scheme and Test Project will follow the allocation of marks within the Standards Specification to the extent practically possible. A variation of five percent is allowed, provided that this does not distort the weightings assigned by the Standards Specification.



## WORLDSKILLS STANDARDS SPECIFICATION

SECTION		RELATIVE IMPORTANCE (%)
1	Work organization and management	10
	<p>The individual needs to know and understand:</p> <ul style="list-style-type: none"><li>• Health and safety legislation, obligations and regulations which control the work process</li><li>• The principles of working safely with electrical equipment and tools</li><li>• Emergency procedures and reporting processes for accidents, first-aid and fire</li><li>• The situations when personal protective equipment (PPE) must be used</li><li>• The uses, care, maintenance and storage of tools, machines, equipment and materials</li><li>• The significance of keeping a clean and tidy work area</li><li>• Ways in which working practices can minimize wastage and manage/control costs</li><li>• Sustainability measures applying to the use of 'green' materials and recycling</li><li>• Principles of work planning, operations and time management</li><li>• The significance of planning, accuracy, checking and attention to detail in all working practices</li><li>• The role of the individual in maintaining a successful business</li><li>• The value of managing own continuing professional development</li></ul>	
	<p>The individual shall be able to:</p> <ul style="list-style-type: none"><li>• Follow health and safety standards, rules and regulations</li><li>• Maintain a safe working environment</li><li>• Identify and use the appropriate personal protective equipment including safety footwear, ear, eye and dust protection</li><li>• Select, use, clean, maintain and store all hand and powered tools and equipment safely</li><li>• Select, use and store all materials safely</li><li>• Plan the work area to maximize efficiency and maintain the discipline of regular tidying and cleaning</li><li>• Plan and work efficiently, checking progress and outcomes regularly to avoid unnecessary costs or other penalties</li><li>• Critically evaluate own work</li></ul>	



2	Communication and interpersonal skills	5
	<p>The individual needs to know and understand:</p> <ul style="list-style-type: none"><li>• The importance of establishing and maintaining client confidence and trust</li><li>• Non-verbal communication</li><li>• The negotiation process</li><li>• The roles and requirements of associated trades and professions</li><li>• Effective methods of communication with different groups and individuals</li><li>• The value of building and maintaining productive working relationships with colleagues and managers</li><li>• The importance of swiftly resolving misunderstandings and conflicting demands</li><li>• Progress reporting methods</li></ul>	
	<p>The individual shall be able to:</p> <ul style="list-style-type: none"><li>• Gain the trust of clients and manage expectations positively</li><li>• Visualize and interpret clients' wishes, giving advice and making recommendations or providing options which meet/improve their design and budgetary requirements</li><li>• Liaise with suppliers to negotiate prices and place orders</li><li>• Produce estimates for clients</li><li>• Recognize, respect and adapt to changing circumstances and requirements</li><li>• Communicate with others with reference to drawings, variations to documents and restrictions</li><li>• Follow instructions, meet deadlines and report on progress in the appropriate format</li></ul>	
3	Problem solving, innovation and creativity	5
	<p>The individual needs to know and understand:</p> <ul style="list-style-type: none"><li>• Principles of style, form and aesthetics</li><li>• The available options for enhancing quality through style and technique</li><li>• The common types of problem which occur during the work process</li><li>• Diagnostic approaches to problem solving</li><li>• The challenges of complex projects</li><li>• Trends and developments in the industry</li></ul>	
	<p>The individual shall be able to:</p> <ul style="list-style-type: none"><li>• Consider, explore and discuss style, form and aesthetics with clients and specialists</li><li>• Check work regularly to minimize problems at a later stage</li><li>• Recognize, clarify and resolve problems swiftly and through appropriate processes</li><li>• Develop creative solutions to challenges when working on complex projects</li><li>• Contribute ideas to improve the product and overall level of client satisfaction</li><li>• Keep up to date with changes and trends in the industry</li><li>• Demonstrate a willingness to try new methods</li></ul>	



4	Working with drawings	15
	<p>The individual needs to know and understand:</p> <ul style="list-style-type: none"><li>• The essential information that should be included in a working drawing</li><li>• The ISO standards which govern drawings</li><li>• Geometry and trigonometry</li><li>• The significance of an accurate working drawing as a basis for high quality work</li><li>• The importance of identifying and correcting errors and omissions</li><li>• The options for adding value through construction style and technique</li></ul>	
	<p>The individual shall be able to:</p> <ul style="list-style-type: none"><li>• Establish the required uses and environment of the finished product</li><li>• Establish the required or appropriate materials for the product</li><li>• Establish the dimensions, characteristics and style of the required product</li><li>• Produce drawings both to scale and full size [the TD seems to suggest this]</li><li>• Produce drawings which clearly indicate the type of construction</li><li>• Interpret given drawings, optimizing the potential for high quality construction</li><li>• Clarify and correct missing or incorrect information</li><li>• Determine the types and quantities of the required materials for the product</li></ul>	
5	Selecting and preparing materials	25
	<p>The individual needs to know and understand:</p> <ul style="list-style-type: none"><li>• The importance of thinking through each project to ensure that everything is in place to enable completion</li><li>• The implications for the business/organization of not setting out correctly</li><li>• Calculations to assist accuracy and the efficient use of time and materials</li><li>• The characteristics and uses of hardwood and softwood</li><li>• The characteristics and uses of board materials</li><li>• The characteristics and uses of veneers</li><li>• Methods for identifying defects and limitations in the materials selected</li><li>• The characteristics of the selected material when in use by the client</li><li>• The basis for selecting fittings for hinges, locks, catches, stays, handles and shelves</li></ul>	
	<p>The individual shall be able to:</p> <ul style="list-style-type: none"><li>• Visualize the whole project to identify and resolve challenges</li><li>• Select the material in order to avoid defects and enhance appearance</li><li>• Select fittings for use and appearance</li><li>• Set out the material in order to determine all the measurements, sections, angles, mitres and joints</li><li>• Use geometric methods to determine complex angles, joints and intersections</li><li>• Label material and items as appropriate</li><li>• Transfer points, measurements and angles accurately from plan to materials</li><li>• Set out directly on materials where appropriate</li></ul>	



6	Jointing and assembly	25
	<p>The individual needs to know and understand:</p> <ul style="list-style-type: none"> <li>• How solid wood and board material components are joined to create and assemble items</li> <li>• The balance to be struck between the quality of jointing and the available time</li> <li>• The properties, uses and limitations of glues and other fixing materials</li> </ul>	
	<p>The individual shall be able to:</p> <ul style="list-style-type: none"> <li>• Use prepared solid wood to set out the required type and size of joints for an assembly</li> <li>• Use hand and/or hand-powered tools to cut and prepare a wide range of joints including mortice and tenon, finger joints, mitres, dowel joints, halving joints and dovetail joints</li> <li>• Use woodworking machines to form or part-form joints</li> <li>• Use woodworking machines to form grooves, rebates and mouldings</li> <li>• Cut board materials and prepare joints using a dimension saw</li> <li>• Apply edging strips and face veneers to a panel</li> </ul>	
7	Preparation of surfaces and finishing	15
	<p>The individual needs to know and understand:</p> <ul style="list-style-type: none"> <li>• How various components are prepared for polishing</li> <li>• The uses and limitations of preparatory techniques and materials</li> <li>• Methods of fitting doors and drawers into a cabinet carcase</li> <li>• The uses and limitations of polishing materials and agents</li> <li>• The importance of checking finish against client requirements and expectations and personal standards</li> </ul>	
	<p>The individual shall be able to:</p> <ul style="list-style-type: none"> <li>• Position and fit hinges</li> <li>• Control the fit around door edges</li> <li>• Fit drawers and other moving items into carcasses to achieve a glide fit</li> <li>• Produce surfaces that are free from defects</li> <li>• Produce surfaces on a complete assembly that are free from defects</li> <li>• Produce soft edges to the components or assemblies</li> <li>• Polish the components or assemblies</li> <li>• Review the items for harmony, proportion, fit and finish</li> </ul>	

