

Standards and Assessment Guide

Painting and Decorating

Introduction

Welcome to the Standards and Assessment Guide (SAG), a comprehensive resource designed to support excellence in assessment practices for all skills competitions hosted at the WorldSkills Competition. A key component of the SAG is the commitment to continuous improvement through ongoing review, ensuring that these guides consistently reflect the latest industry innovations and high standards of assessment in an open and transparent manner.

Purpose

The primary purpose of this guide is to provide a structured framework for the consistent and fair assessment of each skill competition. It aims to ensure that all assessments are conducted with a high degree of accuracy, reliability, validity, and reflect global industry standards. By adhering to these guidelines, assessors can maintain the integrity of the competition and uphold the high standards associated with WorldSkills.

Note: this guide is not a replacement for the Marking Scheme and should only be used as a reference when required during the assessment process. Competitors are not allowed to have a copy of this SAG in the workshop in either digital or paper form.

Scope

This document covers general assessment practices applicable to a diverse range of industry sectors including:

- Manufacturing and Engineering Technology
- Information and Communication Technology
- Construction and Building Technology
- Transportation and Logistics
- Social and Personal Services
- Creative Arts and Fashion

Each skill competition has its unique requirements and benchmarks, which are detailed within sections of this guide. The consistency of assessment across each skill is the overarching principle, ensuring a unified approach to evaluating Competitor performance to the highest standards.

Key Components

The guide is structured into several key components, each addressing critical aspects of the assessment process:

Assessment Principles and Objectives

- Emphasis on fairness, transparency, and objectivity in assessments.
- Alignment with global industry standards and best practices.

Assessment Methods and Tools

- Description of various assessment methods in Measurement and Judgement.
- Guidance on the application of appropriate assessment tools and equipment (if applicable).

Criteria and Benchmarks

- Examples of assessment criteria and aspects for each skill, outlining the expected competencies and performance standards.
- Benchmarks for different levels of proficiency i.e. Judgement award range 0, 1, 2, 3 or Yes/No criteria alongside clear measurable descriptors.

Expert assessment requirements

- Completion of the Access Programme.
- Approved Curriculum Vitae (CV).
- Reaching **100%** Expert preparedness.
- Full participation of online and in-person Mandatory Assessment Training (MAT).
- Completion of practical assessment testing at the Competition.

Quality Assurance and Improvement

- Monitoring and evaluation: Ensuring assessments are carried out correctly and produce reliable results.
- Continuous improvement: Using feedback from Experts and Skill Competition Managers to enhance future assessments.
- Periodic review: Regularly updating processes to reflect current industry and WorldSkills standards.

Implementation

For effective implementation, this guide should be used for guidance purposes only and in parallel with the Technical Description for each skill. Experts are encouraged to familiarize themselves thoroughly with both the general guidelines and the particular requirements of their respective skill areas. Collaborative efforts between the Skill Management Team, Experts, and Competitors are vital for achieving the ultimate goal of global skills development.

Conclusion

The Standards and Assessment Guide embodies the commitment of the WorldSkills movement to nurturing talent and promoting the highest standards of vocational education and training worldwide. By providing clear and comprehensive guidance, we aim to empower Experts to conduct marking and assessment practices that are not only rigorous and equitable but also inspiring and transformative for all participants.

Thank you for your dedication to upholding these standards and contributing to the success of the WorldSkills Competition. Together, we can continue to champion skills excellence and celebrate the achievements of talented individuals from around the globe.

Skill 22 – Painting and Decorating

This document outlines the principles and processes for evaluating criteria and aspects related to Test Projects used in WorldSkills International Competitions, specifically Skill 22 Painting and Decorating.

Examples used are "as agreed" by all Experts at the previous competition. This document is an Appendix to the Technical description of the Skill. This guide promotes equity, openness, and clarity of the assessment criteria for all Experts involved in preparation, training and evaluation in the painting and decorating category. The guide should help avoid possible discussions about the assessment process during the marking of the competitor's work. All criteria/aspects and marks/points are examples from previous marking schemes and serve only to demonstrate their possible application concerning the competition Test Project, which will differ from previous competition test projects.

This document serves as the basis for all subsequent competitions in the painting and decorating category and may be supplemented with new/other examples of criteria or include new ones.

Assessment methods - Measurement and Judgement

Measurement

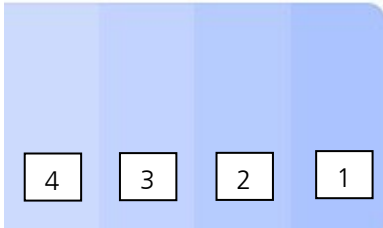
Measurement is used to assess accuracy, precision, and other performance that can be measured objectively. It is used where ambiguity must be avoided. The total marks allocated to measurement marking may vary from competition to competition depending on the Test Project. The assessment decisions available to a marking team for measurement are either:

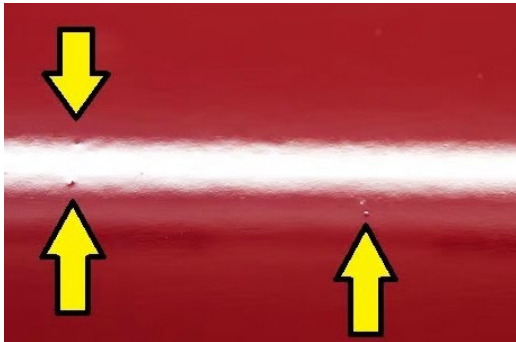
- Binary: 'yes or no.'
- Against a pre-determined scale or measurement of conformity to a given benchmark.

Measurement tools for assessment

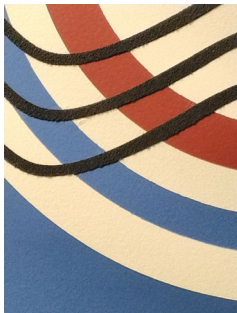
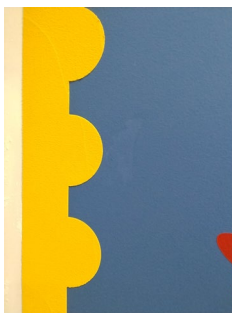
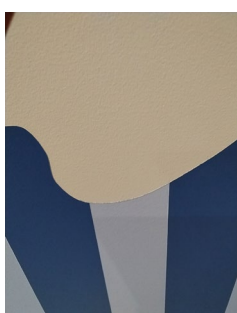
Measurement tools can give different measurements from maker to maker and under different ambient circumstances therefore to ensure accuracy of measurement competitors are asked to either:

- Leave their measuring tools in their test project work area for the assessing team to use when assessing measurements, or
- Calibrate their measuring tools against the set of measuring tools used by the assessing team.
- Please note – Any marks awarded or deducted in the following are for guidance purposes only. The Independent test Project designer will set the marks awarded or deducted in the marking scheme.

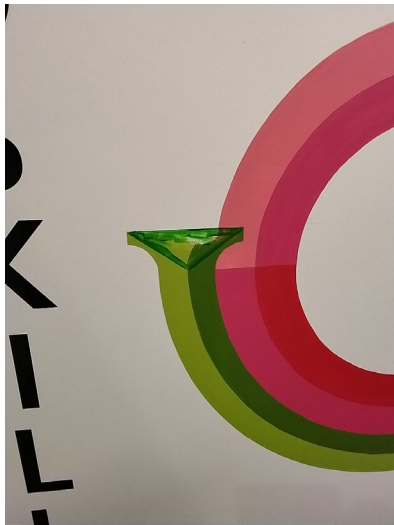
Aspect	WSOS section as per TD	Descriptor
	A2 M	Mural completed Has the design been completed with all colours applied in the correct order as per the instructions and drawing, with a minimum of 2 coats applied. Yes or No.
Mural speed challenge	A3 M	The time taken to draw & apply paint in mural test will be recorded. The competitor with the quickest time will be awarded full marks. If competitor does not complete the mural in 1.5 hours, no marks will be given however it is up to the competitor to determine when they stop working on this module. All other competitors will be ranked in order of finishing, with each competitor to receive marks less than the competitor finishing before them. NOTE: Competitors who finish within 30 seconds of each other will receive the same number of marks. For marks to be awarded masking must be used to tape all of the design. On completion the mural must be free of all masking tape and a minimum of 2 coats of paint applied. The competitor must clearly indicate to the timing expert when they have completed and stopped their work and this time will be recorded by the timing expert.
Colour Matching Mixing predetermined colours 1 & 2	A4 M	Competitors will be given two A4 size panels pre-coated with Matt paint. One panel will be a Light colour, and one panel will be a Dark colour. Competitors will then have to make up the colours to match the given sample panels and apply to their panels (one light, one dark). All the panels are arranged according to their accuracy to the master sample. The best matched panels are placed first, the least matched panels last. Works of an identical quality are grouped together and given the same number of points. Example of shade difference assuming No 1 is master swatch colour mixed. Panel submitted matches No 1 (master swatch) = 2.0 full marks Panel submitted matches No 2 (1 tint / shade difference) = 1.5 marks Panel submitted matches No 3 (2 tint / shade difference) = 1.0 marks Panel submitted matches No 4 (3 tint / shade difference) = 0.5 marks Panel submitted matches with more than 4 tint / shade difference or wrong colour = 0 marks 

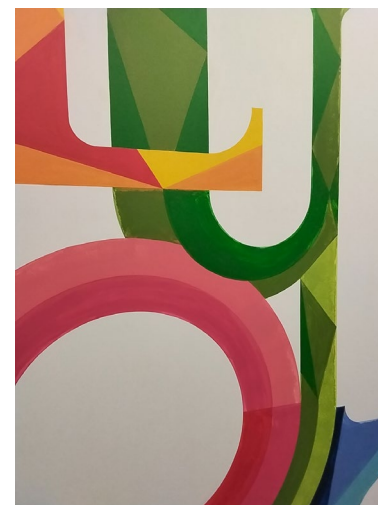
Aspect	WSOS section as per TD	Descriptor
Mural Quality	A5 M	Check surface area for defects including nibs and reference marks. Remember nibs can only be assessed if under the surface of the paint. You cannot be penalised for surface dust landing on the painted surface.   Nibs under the paint Dust on the surface of the paint Mural - Clean surfaces Check surface area for defects including nibs and reference marks. Viewed from 1 metre. Deduct 0.25 marks for each area 50mm x 50mm. Deduct 0.25 marks for every defected area thereafter. Mural - Opacity Check Opacity viewed at 1 metre distance. Deduct 0.25 marks per error for poor opacity 50mm x 50mm. Deduct 0.25 marks and for every defected area thereafter. See picture in Aspect A5 for reference for opacity examples. Mural - Straight Lines are straight within specification and no edge creep or heavy brush marks. Viewed from 1 metre. Deduct 0.25 marks per error 100mm x 1mm. Deduct 0.25 marks and for every defected area thereafter. Mural - Clean corners Check for sharply painted corners, no edge creep or heavy brush marks. Viewed from 1 metre. Deduct 0.25 marks per error 100mm x 1mm. Deduct 0.25 marks for every defected area thereafter. Mark only 10mm either side of corner.

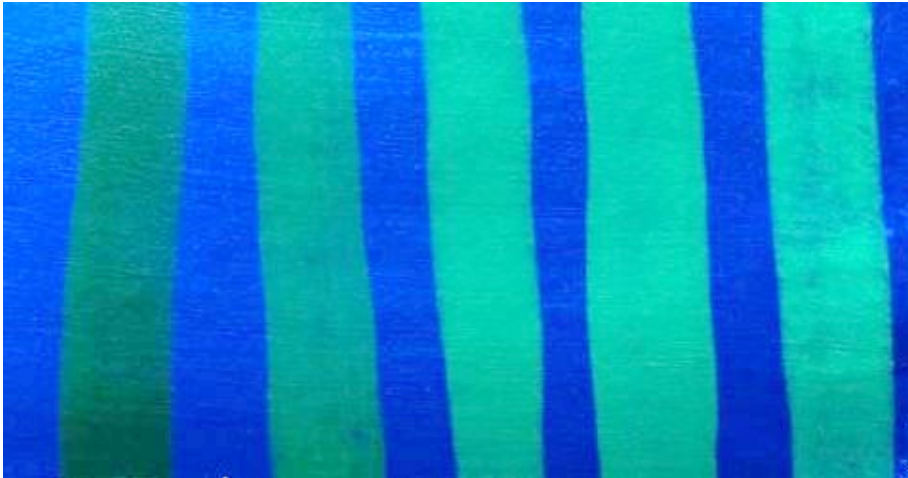
Aspect	WSOS section as per TD	Descriptor
	A5 M	Opacity has always created issues. The ideal painted colour will be solid and even all over with no shading. The example below shows how the green colour applied over the blue starting from the righthand side required 5 coats to achieve full opacity. 
Mural Accuracy	A6 M	12-dimension positions are to be identified from the speed mural drawing by the Expert assessment team. 6-dimension positions of the identified 12 will then be chosen at random and used to assess the accuracy of measurements. Normally a dimension tolerance is +/- 1 mm accuracy. E.g. If 100mm dimension. Good = 99mm, 100mm, 101mm. mark awarded.

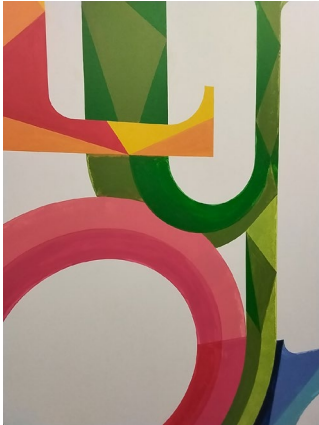
Aspect	WSOS section as per TD	Descriptor
Free Technique Quality	B2 M	Workmanship Free of defects viewed from 1 metre away, edge creep, runs, nibs, paint spots. Technical ability More than 2 decorative effects including but not limited to sponging, ragging, stencilling, marbling, graining, gilding. Reference marks and surrounding area Deduct 0.25 marks each defect 50mm x 50mm   
Free Technique information.	B3 M	An A4 size information sheet submitted to the CE at start of the competition. As per described in the technical Description. – Yes or No.
Free Technique completion	B4 M	As per Technical Description, drawing provided by competitor prior to start of C1 – Yes or No. Some techniques, colours and dimensions may show minor differences from the competitor's information sheet. Reasonable allowance must be made for this as agreed by the marking team experts.

Aspect	WSOS section as per TD	Descriptor
Lettering Completion	C2 M	All completed As per technical drawing – Yes or No.
Lettering Quality	C3 M	Lettering - Straight Lines and clean corners. Lines are straight within specification and no edge creep. Deduct 0.25 marks for errors in each letter viewed at a distance of 1 metre away. Deduct a further 0.25 mark for each additional 1-10mm area Lettering Opacity, Check Opacity of the Lettering viewed at a distance of 1 metre. Deduct 0.25 marks for poor opacity in each letter, deduct a further 0.25 marks for each additional 20mm x 20mm area. Lettering - Reference Points (no visible reference lines or marks) Check surface area for reference marks including cut and pencil marks viewed from 1 metre. Deduct 0.25 marks for each reference point found. Deduct a further 0.25 marks for each additional 20mm x 20mm area.  The picture above shows some opacity defects at the top of the letter R. and also an incorrect line which is not clean or straight on the left line of the R.
Design Lettering Accuracy	C4 M	Lettering – Horizontal and vertical positions of lettering must be assessed by assessment Team. Points awarded and deductions will be determined by the ITPD 's marking scheme.

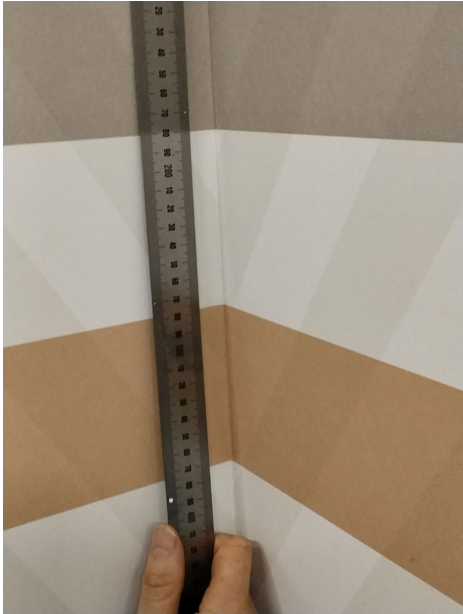
Aspect	WSOS section as per TD	Descriptor
Main Design	D2 M	1. Design - All completed As per design drawing – Yes or No. 2. Design Reference points - Check surface area for reference marks including cut marks. Viewed from 1 metre. Deduct 0.25 marks for each reference point found. Deduct a further 0.25 mark for each additional 20mm x 20mm area. 3. Design Correct colour - Check that all areas are coated with the correct colours and with coats of paint applied. Deduct 0.25 for each fault/ incorrect colour. The picture below shows the design is not complete as the triangular field has not been coated fully. 

Main design lines and curves	D3 M	The design will be assessed split over three areas/ positions identified by the assessment team. Each area will be assessed as follows - Design - Straight lines and curves. Areas/Positions 1, 2 & 3. Lines are straight no heavy brush marks viewed at a distance of 1 metre. Deduct 0.25 marks per error 100mm in length Example below – Marking/ assessment team split the design with three vertical sections and will assess sections A, B & C. However, the marking team can split the design horizontally or diagonally depending on the IDPT’s design concept.   Example of straight good lines and curves above
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Main Design Opacity	D4 M	The design will be assessed split over three areas/ positions identified by the assessment team, as mentioned previously in D3M. Each area will be assed as follows - Design - Opacity. Area/Position 1, 2 & 3. Check Opacity viewed at a distance of 1 metre. Deduct 0.25 marks per error for poor opacity for areas greater than 20mm x 20mm. Deduct a further 0.25 marks for each additional 20mm x 20mm area 
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Main Design corners	D5 M	The design will be assessed split over three areas/ positions identified by the assessment team, as mentioned previously in D3M. Each area will be assed as follows – Design - Clean corners. Area/ Positions 1, 2 &3 Check for sharply painted corners 10mm from point to point. Viewed from 1 metre. Deduct 0.25 per error.  Example of clean corners
Main Design Accuracy	D6 M	20-dimension positions are to be identified from the speed mural drawing by the Expert assessment team. 10-dimension positions of the identified 20 will then be chosen at random and used to assess the accuracy of measurements. Normally a dimension tolerance is +/- 1 mm accuracy. E.g. If 100mm dimension. Good = 99mm (-1mm), 100mm, 101mm (+1mm). mark awarded.
Main Design Cleanliness	D7 M	Check Surrounding areas clean (wall area B) Check for paint spots, dirty marks, roller over spray. Viewed at 1m distance away. Deduct 0.25 per defect.

pect	WSOS section as per TD	Descriptor
Wallpaper accuracy	E3 M	1. Dimensional Accuracy - Check vertical plumb on wall A and B Vertical hung within +/- 1 mm, over 1m distance from height of 170cm - 70cm. Test project designer to decide on measuring plumb on right side of door area and left side of door area. 2. Dimensional Accuracy, start point onto wall B measured at the top skirting tolerance within +2 mm = 1 marks, However, depending on the thickness of the identified wallpaper the tolerance may vary and required to be adjusted to suit.
Wallpaper trimming	E4 M	Viewed from 1m distance. Assessment team to check all horizontal and vertical skirtings and door frames trimming. Surface – Trimming - Deduct 0.25 marks for trimming incorrectly within an area 1mm x 50mm. Deduct 0.25 marks for every defected area there after e.g. over runs, undercutting, tears or ragged edges. For every defect within an area 1mm x 50 deduct 0.25 marks for every defected area there on. Surface – Bubbles, (air or grit/filler) and lifting (Edge lifting). Deduct 0.25 marks for each air bubble under 20mm x 20mm, deduct 0.5 marks for each bubble greater than 20mm x 20mm

Wallpaper connections. Note wallpaper must be checked for accuracy of manufacturers trim prior to hanging to allow for accuracy of joints	E5 M	Connection - Overlaps and raised butt joints. Deduct 0.25 marks per overlaps or butt joint on wallpaper joints per 100mm long. Connection - Gaps Deduct 0.25 marks per gap between wallpaper joints per 100mm long. Marking Team must determine what is a gap. It must be a separation of the two lengths of paper, some white edges on paper may be visible which may give the appearance of a gap. This must be checked as white edges are not the fault of the competitor. Connection – Internal Corner at wall A & B. Overlap Deduct mark if the wallpaper has excessive overlap or no overlap in the whole corner. 2-10mm acceptable overlap tolerance. 
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Wallpaper faults	E6 M	Wallpaper - Reference points Check surface area for reference and cutting/tape marks viewed from 1 metre away. Deduct 0.25 marks for each reference point found on each side. Surface – Wallpaper Adhesive/Glue Deduct 0.25 marks - glue on the front of the wallpaper and surrounding for each area 100mm x 100mm. If you need more wallpaper than allocated Deduct allocated mark – Yes or No.
Door	F2 M	Door correctly painted 3 colours applied as per drawing minimum of 2 coats applied - Yes or No.
Painting of profiles (mouldings)	F3 M	Assessment team check for correctly painted mouldings using masking technique to form lines and painting by hand to form lines.  VID_20190826_212827.mp4 Surface profile Opacity - Check Opacity viewed at a distance of 1 metre. Deduct 0.25 marks per error for poor opacity. For areas greater than 50mm x 50mm Deduct a further 0.25 for each additional 50mm x 50mm area

Painting of door outer panel	F4 M	Brush/Roller Marks - Outer Panel If no brush/roller marks visible from 1 metre. Deduct 0.25 marks per area of excessive brush marks or roller stipple/orange peel effect. Brush/Roller Marks - Outer Panel If no brush/roller marks visible from 1 metre. Deduct 0.25 marks per area of excessive brush marks or roller stipple Runs - Deduct 0.25 marks for each Run. Runs per 50mm square.  Nibs - Outer Panel If no nibs found on any surface visible from 1 metre. Deduct 0.25 marks for each nib found on surface Opacity - Outer Panel Check for opacity of painted surface at a distance of 1 metre. Deduct 0.25 marks for each area with poor opacity Surrounding Area - Outer panel. Deduct 0.25 marks for each mark on the surrounding areas. (mouldings and door outer panel).
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**Painting of
Door Inner
Panel HVLP
spraying**

F5 M

Planning of 15-minute time slots Allocated time slot booked, but not used or used more than the allocated time of 15 minutes – Yes or No.

Time Slot						Time Slot					
Group A	Day 1	Start	Finish	Bay 1	Bay 3	Group B	Day 1	Start	Finish	Bay 2	Bay 4
		10:05	10:20					10:05	10:20		
		10:25	10:40					10:25	10:40		
		10:45	11:00					10:45	11:00		
		11:05	11:20					11:05	11:20		
		11:25	11:40					11:25	11:40		
		11:45	12:00					11:45	12:00		
								12:05	12:20		
								12:25	12:40		
								12:45	13:00		
Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
		13:05	13:20					14:10	14:25		
		13:25	13:40					14:30	14:45		
		13:45	14:00					14:50	15:05		
		14:05	14:20					15:10	15:25		
		14:25	14:40								
		14:45	15:00					15:45	16:00		
Break	Break	Break	Break	Break	Break	Break	Break	Break	Break	Break	Break
		15:05	15:20					16:05	16:20		
		15:25	15:40					16:25	16:40		
		15:45	16:00					16:45	17:00		
		16:05	16:20								
		16:25	16:40								
		16:45	17:00								

Spray Marks - Inner Panel If no dry spray/texture marks visible from 1 metre = 1 marks Deduct 0.25 marks per area of excessive orange peel or dry spray.

Missed Areas - Inner Panel. If complete area has been painted and there are no missed areas. Visible from 1 metre = 1 mark Deduct 0.25 marks for each missed area.

Runs - Inner Panel. If no runs on surface visible from 1 metre = 1 mark Deduct 0.25 marks for each Run

Nibs - Inner Panel. If no nibs found on any surface visible from 1 metre = 1 mark Deduct 0.25 marks for each nib found on surface

		Opacity - Inner Panel Check Opacity viewed at a distance of 1 metre. Deduct 0.25 marks per error for poor opacity. For areas greater than 50mm x 50mm Deduct a further 0.25 mark for each additional 50mm x 50mm area. Surrounding Area - Inner Panel If all surrounding areas have been kept clean. Deduct 0.25 marks for each mark on the surrounding areas. Cleaning of Spray gun equipment. All equipment to be cleaned and stored as per the manufacturer's instructions. No paint particles to be visible on the exterior or interior of the given spray unit.
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Judgement

Judgement is used to assess the quality of performance about which there may be small differences of view when applying the external benchmarks.

The Resources column in the tables below may include all kinds/formats of resources such as a link to a YouTube video, a website link, an illustration, a photo, a reference to a book, and so on. It needs to be as detailed as possible to show the differentiation between 0, 1, 2, 3.

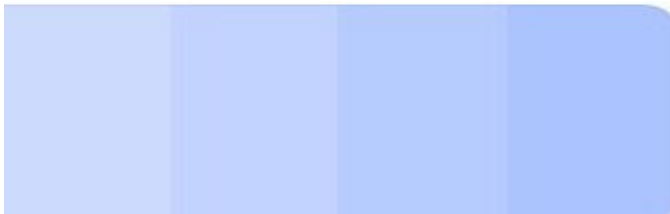
Generic rules

20 seconds assessment viewing maximum per aspect.

- The assessment group comprises three Experts plus one Expert who acts as the supervisor. The supervising Expert will replace an Expert in the marking group to prevent compatriot marking.
- Experts must stand at the designated distance away from what is being assessed. They must stay perpendicular to what is being assessed and are not permitted to lean in to shorten the viewing distance. They must adopt/use the same viewing stance/position for each competitor to ensure a consistent fair approach.
- The difference of the three Experts' scores may not exceed 1. If this is the situation the Experts must re-score until there is a maximum difference of 1. As long as the three Experts judge within 1, the result can be entered into the CIS.
- The total marks allocated to judgement marking may vary from competition to competition depending on the Test Project.

Aspect – Mural Colour Harmony

WSOS section as per TD	Score	Descriptor	Resource
A1 J	0	0 - Graduation is uneven and clearly does not match sample given	
	1	1 - Graduation has minor differences to sample	Appears heavy on dark two colours/ shades/ tints – Not as equal/ gradient balance overall. 

WSOS section as per TD	Score	Descriptor	Resource
	2	2 - Graduation has 2 even gradients as per sample without error	Lightest colour too light, three darker colours/ shades/ tints are equal/ gradient balanced 
	3	3 - Graduation matches all samples given without error. Example of a 3 score -	Appears equal balanced graduation. 

Aspect – Free Technique Impression

WSOS section as per TD	Score	Descriptor	Resource
B1 J	0	No skills executed, Painted wall only, multiple faults not shown in submitted design.	
	1	Completion of decorative skills shown in submitted design with more than 3 visible faults / inaccuracy defects from 1.5 metres away.	
	2	Completion of decorative skills shown in submitted design with less than 3 visible faults/ inaccuracy defects from 1.5 metres away.	
	3	Completion of decorative skills shown in submitted design with no defects visible from 1.5 metres away	

Aspect – Lettering Impression

WSOS section as per TD	Score	Descriptor	Resource
C1 J	0	Incomplete without 2 coats of paint applied. Lettering applied distorted and not horizontal, edge creep to 80% of edges. Heavy brush and roller marks. Viewed from 1 metre away	
	1	Complete with 2 coats of paint no distortion of lettering, level and minor edge creep to 20% of area. Brush marks viewed from 1 metre away	
	2	Complete with 2 coats of paint no distortion, level clean lines with no edge creep some brush or roller marks visible from 1 metre away.	
	3	Complete with no faults even application of paint no edge creep good opacity and no brush or roller marks visible at 1 metre away	

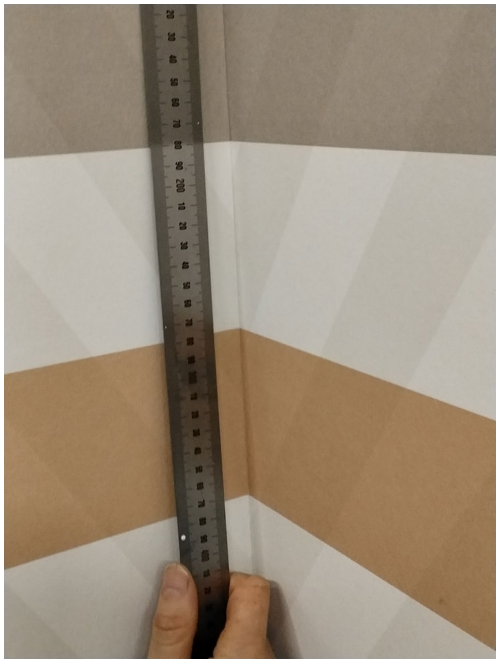
Aspect – Main Design, Overall impression of design

WSOS section as per TD	Score	Descriptor	Resource
D1 J	0	Incomplete multiple defects with poor opacity, no straight lines, poor corners, heavy brush and roller marks visible, viewed at a distance of 1.5 metre	
	1	- Complete with minor faults in lines and curves with +/-2 mm, a minimum of 2 coats of paint applied, and no runs. Brush and roller marks visible at 1.5 metres away	
	2	Complete with minor faults in lines and curves with +/-1 mm, a minimum of 2 coats of paint applied, minor brush and roller marks visible from 1.5 metres away and no runs.	
	3	Complete with no faults in lines and curves with +/-1 mm, a minimum of 2 coats of paint applied, excellent opacity in all areas and no brush or roller marks visible from 1.5 metres away	

Aspect – Wallpaper – Internal corner.

Assessment team must assess matching of wallpaper in corner between 150cm – 170cm from the top of skirting board (average standing eye level). This will allow for any vertical and horizontal discrepancies of any build quality of the test project walls. Viewed from 1m distance.

WSOS section as per TD	Score	Descriptor	Resource
E1 J	0	4+mm Loss of pattern match between 150cm-170cm.	
	1	3mm loss of pattern match between 150cm-170cm.	
	2	2mm Loss of pattern match over whole 150cm - 170cm	

WSOS section as per TD	Score	Descriptor	Resource
	3	No loss of pattern match over whole 150cm - 170cm.	

Aspect – Wallpaper impression

Horizontal Balance of design and position of pattern may be difficult to produce if the starting point is specified in the test project therefore it is not assessed

WSOS section as per TD	Score	Descriptor	Resource
E2 J	0	No pattern match, paper not hung correct as specified (direction of hang), incomplete application.	
	1	Complete and matches pattern +/- 1mm between 150cm-170cm with no defects	
	2	Complete and has a 70% pattern match +/- 1mm with no defects	

WSOS section as per TD	Score	Descriptor	Resource
	3	Complete and has no loss of pattern match +/-1mm over 90% with no defects	

Aspect – Door Frame and Skirting

Quality of finish; to include cutting in, misses, runs, filling marks, nibs and even gloss finish.

WSOS section as per TD	Score	Descriptor	Resource
F1 J	0	Has more than 8 defects such as heavy brush marks, roller marks, misses, runs, poor opacity, nibs and cutting in +/-4mm, filler marks viewed from 1.5 metres away	
	1	Complete with 2 coats of paint applied has more than 4 defects, over runs, under cuts and filler marks. Minor brush marks, roller marks, nibs visible. Viewed from 1.5 metres away	
	2	Complete with 2 coats of paint applied has less than 4 defects, over runs, under cuts and filler marks. Minor brush marks, roller marks, nibs visible. Viewed from 1.5 metres away	
	3	Complete with 2 coats of paint applied has no minor defects cutting in +/- 1mm over runs, under cuts and filler marks. Minor brush marks or roller marks visible. Viewed from 1.5 metres away	