

Standards and Assessment Guide

Bricklaying

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.

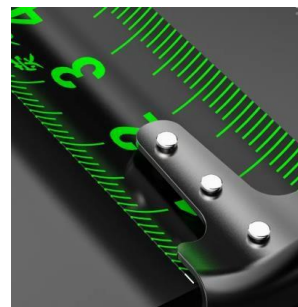
Skill 20 – Bricklaying

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.

Aspect	Descriptor
Dimension	Each check point will have a max mark of 1.0 for significant or complex work or 0.5 for small ranges or less complex checks. A deduction will then be applied which will be 0.1 per 1 mm of error to determine the allocated mark. Demonstrations will be provided on the sample model during the Mandatory Assessment Training sessions at the competition.
Plumb	Each check point will have a max mark of 1.0 for significant or complex work or 0.5 for small ranges or less complex checks. A deduction will then be applied which will be 0.1 per 1mm of error to determine the allocated mark. Demonstrations will be provided on the sample model during the Mandatory Assessment Training sessions at the competition.
Level	Each check point will have a max mark of 1.0 for significant or complex work or 0.5 for small ranges or less complex checks. A deduction will then apply which will be 0.1 per 1 mm of error to determine the allocated mark. Demonstrations will be provided on the sample model during the Mandatory Assessment Training sessions at the competition.
Alignment	Each check point will have a max mark of 1.0 for significant or complex work or 0.5 for small ranges or less complex checks. A deduction will then be applied which will be 0.1 per 1mm of error to determine the allocated mark. Demonstrations will be provided on the sample model during the Mandatory Assessment Training sessions at the competition.
Details	Each check point will have a max mark of 1.0 for significant or complex work or 0.5 for small ranges or less complex checks. A deduction will then be applied which will be 0.1 per 1mm of error to determine the allocated mark. (Same comment as above) Demonstrations will be provided on the sample model during the Mandatory Assessment Training sessions at the competition.

Measurement Tools Resource

Tape measure – good quality accurate tape sourced and agreed for use to measure all Competitors work in a designated position over a long span.



Spirit Level- a range of spirit levels checked for accuracy by marking team.

Appropriate size range used for plumb and level



Aspect	Descriptor
Dimension	• Set out checks will be taken level with the top of the first course • If the bricks have rounded corners a guide can be used to determine the true dimension being checked • If the measurement falls between millimetres the error will favour the Competitor 

Aspect	Descriptor
Dimension	- Gauge will always be taken from the top of the first course - If the competitor has used a metal strip to measure gauge from, the measuring tape will be hooked under the metal strip when gauge is being checked. If a ruler has been used then the end of the ruler will sit on top of the metal strip.  

Aspect	Descriptor
Dimension	• A sliding square will be used to check projections/recessions. All experts in the group must check the sliding square. • Where possible, projections/recessions should be checked at the bottom of the first detail brick laid  

Aspect	Descriptor
Level	• Level will be checked 10mm back front of the wall where possible, along the full length of the marking point. The expert group may need to use a straight edge, if the competitors level is not long enough. • Two marking wedges will be used for levelling, one to make sure the spirit level is level, the other to check for maximum error 

Aspect	Descriptor
Level	- Competitors will not be penalised for the curvature of the bricks, but Competitors must take care to lay the best quality bricks possible at the top of the wall to ensure accuracy - If there is going to be a level check to the underside of the bricks, the Competitors must be notified during module briefing  

Aspect	Descriptor
Plumb	• Where possible, plumb is checked 10mm back from the corner of the brick • Competitors will not be penalised for the curvature of the brick when checking plumb • Once the level is in the plumb position, a marking wedge is used to determine the maximum error. • The wedge should not be pushed when checking the gap  

Aspect	Descriptor
Plumb	• The full range of the brickwork must be checked, along the height of the marking point. The Expert marking group may need to use a straight edge, if the competitors level is not long enough. • Cut surfaces and projections may also be included in the checking.  

Aspect	Descriptor
Alignment	- Alignment is taken where there is the most contact with the wall - For any checks that are longer than the standard levels, a straight edge can be used.  

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 table 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:

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.

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.

WSOS section as per TD	Score	Descriptor	Resource
Detail	0	Poor – Commercially unacceptable, client would not be willing to pay for the quality of work, clear visual defects in work produced.	All judgement aspects are covered in the extensive Mandatory Assessment Training being conducted on C-3. During this training all measurement and judgement procedures and good practice will be demonstrated and agreed upon. The marking groups will then be entrusted to consistently apply the practices to the specific detailed Marking Scheme.
	1	Good - Commercially acceptable, client would be willing to pay for the quality of work, limited defects in work produced.	As above
	2	Very Good - Commercially acceptable, with some elements of excellence in work produced.	As above
	3	Excellent - Visually outstanding.	As above

WSOS section as per TD	Score	Descriptor	Resource
Jointing: Recessed	0	<u>Many</u> holes in joint surface, Corners not formed properly, Joint not raked back square and smooth with masonry surfaces, Mortar left to edges of masonry surfaces.	All judgement aspects are covered in the extensive Mandatory Assessment Training being conducted on C-3. During this training all measurement and judgement procedures and good practice will be demonstrated and agreed upon. The marking groups will then be entrusted to consistently apply the practices to the specific detailed Marking Scheme.
	1	<u>Limited</u> holes in joint surface, Corners formed but not square and smooth with masonry edges, Joints not raked square and smooth with masonry surfaces, Mortar left to edges of masonry surfaces.	As above
	2	<u>Minimal</u> holes in joint surface, Corners formed square with masonry edges, Joint raked back square and flat consistently, Minimal smudging.	As above
	3	<u>No</u> holes in joint surface, Corners formed square and smooth with masonry edges, Joint raked back square and smooth with masonry surfaces, No mortar left to edges of masonry surfaces.	As above

WSOS section as per TD	Score	Descriptor	Resource
Jointing: Round	0	Many holes in joint surface, Corners not formed properly, Inconsistent curve to joint finish, Rippling appearance to joint finish, smudging to faces of masonry.	All judgement aspects are covered in the extensive Mandatory Assessment Training being conducted on C-3. During this training all measurement and judgement procedures and good practice will be demonstrated and agreed upon. The marking groups will then be entrusted to consistently apply the practices to the specific detailed Marking Scheme.
	1	Limited holes in joints, Corners mostly formed with a ½ round profile, curved profile, with some rippling to joint finish, Limited smudging to faces of masonry.	As above
	2	Minimal holes in joint surface, Corners consistently formed with a ½ round profile, curved profile finished smooth and consistent with minimal rippling, Minimal smudging.	As above
	3	No holes in joint surface, Corners consistently formed with a smooth ½ round profile, curved profile finished smooth and consistent with no rippling, No smudging.	As above

WSOS section as per TD	Score	Descriptor	Resource
Jointing: Flush	0	<u>Many</u> holes in joint surface, Corners missing off joint surface, Joint not flat with masonry surfaces, smudging to faces of masonry.	All judgement aspects are covered in the extensive Mandatory Assessment Training being conducted on C-3. During this training all measurement and judgement procedures and good practice will be demonstrated and agreed upon. The marking groups will then be entrusted to consistently apply the practices to the specific detailed Marking Scheme.
	1	<u>Limited</u> holes in joints, Corners finished to joint surface, Joint finished to both masonry surfaces, Limited smudging to faces of masonry.	As above
	2	<u>Minimal</u> holes in joint surface, Corners finished flat to joint surface, Joint finished flat consistently to most masonry surfaces, Minimal smudging.	As above
	3	<u>Excellent</u> in comparison with the industry standard. no holes in joint surface, Corners finished square and flat to joint surfaces, Joint finished flat consistently to both masonry surfaces leaving edges clean, No smudging.	As above

WSOS section as per TD	Score	Descriptor	Resource
Jointing: Back Of Wall	0	Excessive mortar rags left at the back of the wall, Excessive gaps in the mortar joints weakening the structure, Bricks stacked on top of each other behind details and not bonded properly.	All judgement aspects are covered in the extensive Mandatory Assessment Training being conducted on C-3. During this training all measurement and judgement procedures and good practice will be demonstrated and agreed upon. The marking groups will then be entrusted to consistently apply the practices to the specific detailed Marking Scheme.
	1	Limited mortar rags left at the back of the wall, Limited gaps in the mortar joints weakening the structure, Bricks stacked on top of each other behind details and not bonded properly.	As above
	2	Minimal mortar rags left at the back of the wall, Minimal gaps in the mortar joints weakening the structure, Bricks bonded correctly behind details.	As above
	3	Mortar rags cut flush from the trowel at the back of the wall, Minimal gaps in the mortar joints weakening the structure, Bricks bonded correctly behind details.	As above

Finish: Render	0	<u>Many</u> holes in the surface finish, Surface finish not flat, Tool marks visible in the surface finish, uneven surface finish and texture, Smudging.	All judgement aspects are covered in the extensive Mandatory Assessment Training being conducted on C-3. During this training all measurement and judgement procedures and good practice will be demonstrated and agreed upon. The marking groups will then be entrusted to consistently apply the practices to the specific detailed Marking Scheme.
	1	<u>Limited</u> holes in the surface finish, Surface finish flat but not even, few tool marks visible in the surface finish, even surface finish but not recognisable texture.	As above
	2	<u>Minimal</u> holes in the surface finish with minimal defects at the edges, Surface finish flat and mostly even texture, Minimal tool marks visible in the surface finish.	As above
	3	<u>No</u> holes in the surface finish with no defects at the edges, Surface finish flat and even texture, No tool marks visible in the surface finish, even surface finish and texture.	As above

WSOS section as per TD	Score	Descriptor	Resource
Finish: Setting Out and Compliance to Plan	0	Major inconsistencies to working drawings	All judgement aspects are covered in the extensive Mandatory Assessment Training being conducted on C-3. During this training all measurement and judgement procedures and good practice will be demonstrated and agreed upon. The marking groups will then be entrusted to consistently apply the practices to the specific detailed Marking Scheme.
	1	Limited inconsistency to working drawing	As above
	2	Minimal inconsistency to working drawing	As above
	3	No inconsistency to working drawing	As above

WSOS section as per TD	Score	Descriptor	Resource
Finish: Regular vertical and horizontal joints	0	<u>Major</u> inconsistent width of vertical joints in masonry, Major inconsistent depth of horizontal joints in masonry, Major inconsistent vertical joint positions in masonry surfaces, Major inconsistency of level for horizontal joints.	All judgement aspects are covered in the extensive Mandatory Assessment Training being conducted on C-3. During this training all measurement and judgement procedures and good practice will be demonstrated and agreed upon. The marking groups will then be entrusted to consistently apply the practices to the specific detailed Marking Scheme.
	1	<u>Limited</u> inconsistent width of vertical joints in masonry, Limited inconsistent depth of horizontal joints in masonry, Limited inconsistent vertical joint positions in masonry surfaces, Limited inconsistency of level for horizontal joints.	As above
	2	<u>Minimal</u> inconsistent width of vertical joints in masonry, Minimal inconsistent depth of horizontal joints in masonry, Minimal inconsistent vertical joint positions in masonry surfaces, Minimal inconsistency of level for horizontal joints.	As above
	3	<u>No</u> inconsistent width of vertical joints in masonry, No inconsistent depth of horizontal joints in masonry, No inconsistent vertical joint positions in masonry surfaces, No inconsistency of level for horizontal joints.	As above

WSOS section as per TD	Score	Descriptor	Resource
Finish: Overall cleanliness, brick selection and finished appearance	0	Excessive mortar stains on masonry surfaces, Excessive washing of masonry evident, Excessive Mortar splashes on masonry surfaces Many bricks and blocks laid with chipped faces,	All judgement aspects are covered in the extensive Mandatory Assessment Training being conducted on C-3. During this training all measurement and judgement procedures and good practice will be demonstrated and agreed upon. The marking groups will then be entrusted to consistently apply the practices to the specific detailed Marking Scheme.
	1	Limited mortar stains on masonry surfaces, Limited mortar stains on masonry surfaces, Limited washing of masonry evident, Few mortar splashes on masonry surfaces, Limited bricks and blocks laid with chipped faces,	As above
	2	Minimal mortar stains and or splashes on masonry surfaces, Minimal traces of washing, Minimal bricks and blocks laid with chipped faces	As above
	3	No mortar stains or splashes on masonry surfaces, No traces of washing is visible on masonry surfaces, No bricks and blocks laid with chipped faces.	As above