

NATIONAL SKILLS COMPETITION

Competitions Sub-Committee

LANDSCAPE GARDENING

(AL)

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INTRODUCTION

WorldSkills Jamaica by a resolution of the National Organizing Committee and in accordance with the Constitution, the Standing Orders and the Competition Rules, has adopted the following minimum requirements for this skill for the National Skills Competition:

The **Technical Description** consists of the following:

- Section 1 – Technical/Competition Description (TD)
- Section 2 – Project Design Criteria (PD)
- Section 3 – Skill Management Procedures (SM)
- Section 4 – Workshop Setup (WS)
- Section 5 – Infrastructure List (IL)
- Section 6 – Appendices

Effective 01.04.07

Grace Mclean (GM)

Chairman, Competition Committee

01.04.07

Daphne Simmonds

Co-Chair

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The National Skills Competition Committee has adopted the following minimum requirements for applicants' entry in the WorldSkills Jamaica National Competition.

The effective date will be that date on which this document is issued, subject to change, by the WorldSkills Jamaica National Competition Organizing Committee.

1. NAME AND DESCRIPTION OF SKILL AREA:

1.1 The name of the skill area is:

Landscape Gardening

1.2 The landscape gardener lays out and maintains:

- Private and public parks, gardens
- Strips of green (along roads, railways and waterways and at airports)
- Sports and leisure grounds, children's playgrounds
- Plants and greenery inside and on the exterior of buildings (on roofs and façades)
- Biotopes, projects for re-cultivation and natural recuperation
- Plant waste water purifier
- Tree cultivation and rehabilitation, transplanting of large trees
- Recycling of organic matter (composting)

1.3 **This technical description must be known to every candidate.**

1.4 Words implying masculine gender only shall include the feminine gender

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2. SCOPE OF THE COMPETITION

2.1 There will be **two** competitors per team (of the same Member). The test project consists only of practical work.

2.2 The theoretical knowledge is limited to that necessary to carry out the practical work. Knowledge of standards, rules and general directions will not be examined.

Practical Work

2.3 The landscape gardeners, in teams of 2, must be able to carry out, unaided and with expertise, the work necessary for the tests mentioned below and comply with regulations concerning safety and the protection of the environment with regard to the laying out and maintenance of:

- Private and public parks, gardens
- Strips of green (along roads, railways and waterways and at airports)
- Sports and leisure grounds, children's playgrounds
- Plants and greenery inside and on the exterior of buildings (on roofs and façades)
- Biotopes, projects for re-cultivation and natural recuperation
- Plant waste water purifier tree cultivation and rehabilitation, transplanting of large trees
- Recycling of organic matter (composting)

2.4 The test project covers the layout of a small garden by preparing and using various materials, such as natural stones, concrete, wood and/or plastics; soil, lawn and plants will be arranged in a layout.

2.4.1 At least four of the following components will be required:

- Pavement
- Walls

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- Stairs
- Wooden construction (Pergola)
- Water
- Lay out of green space (60% of total area)

2.4.2 The appropriate technical skills are:

- Measuring, marking out, leveling and plumbing;
- Cutting and placing/displacing stones and slabs (of natural or artificial stone), for steps, walls and pavements;
- Putting into place and laying out soil and topsoil;
- Planting of lawn (rolled up lawn), trees, shrubs and flower bushes (perennial).

3. SKILL MANAGEMENT PROCEDURES (SM)

3.1. DOCUMENTS REQUIRED

3.1.1 The Chief Expert will have available a current copy of all documents associated with this skill for the Competition.

3.1.2 The documents required are:

- Technical Description
- Competition Rules
- Health and Safety documents
- QAMS – all documents
- Any other documents referred to in the documents listed above.

3.1.3 While it is understood that the Chief Expert will have a copy of these documents in there shall also be a complete set that is available for the experts and other competition workers.

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3.1.4 The Chief Expert is expected to have a sound knowledge of the requirements and procedures specified in the documentation.

3.1.5 The Jury President is expected to have a thorough knowledge and understanding of the requirements and procedures specified in the documentation.

3.2. PRE-COMPETITION RESPONSIBILITIES

3.2.1 In the period between one National Skills Competition and the next, the elected Chief Expert is responsible to ensure that the requirements of Section 2 – Project Design Criteria are complied with.

3.3. SKILL MANAGEMENT PROCEDURES FOR THE CHIEF EXPERTS

The following speaks to the procedures prior to and during the Competition:

3.3.1 The procedures specified below must be adhered to.

3.3.2 On arrival at the Competition site for the first time, the Chief Expert must:

- Welcome the experts and ensure introductions are made
- Inform them of their duties and responsibilities in terms of the Competition Rules and Standing Orders
- Ensure that the project is endorsed by all the experts and that a copy is signed by all the experts

3.3.3 The Chief Expert will then divide the experts into teams for the following activities:

- Verify that the material on site is appropriate and sufficient
- Verify again that the quantities of material as specified on the material list is accurate
- Develop a program for the competitors to complete the modules
- Develop timetables for activities

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- Set up equipment
 - Confirm that the layout, work areas and equipment are in accordance with the workshop setup requirements
 - Confirm that all machinery/equipment is in a safe working order
 - Confirm that all workstations/machinery/equipment are in accordance with the plan, and that they are numbered
 - Confirm that there is sufficient illumination
 - Confirm that there is sufficient space for the competitors to work efficiently
 - Confirm that the barriers are far enough removed from the competitors to ensure that there will be no interference, and if they are not, set up a roster among the experts to police the area during the Competition
 - If necessary, set up duty rosters for activities during the Competition – e.g. keeping watch during lunch, preventing access of unauthorised persons, etc
- 3.3.4 The Chief Expert will then divide the experts into teams for purpose of marking and setting up marking schedules in accordance with the requirements.
- 3.3.5 Suggestions and comments for the revision and improvement of the Technical Description are to be provided to the Deputy Chief Expert in writing. The Deputy Chief Expert will reduce the information to a single typed document ready for discussion by all experts. Prior to leaving the Competition site, the Chief Expert, the Deputy Chief Expert and the Jury President will facilitate the discussion and revision of the Technical Description.
- 3.3.6 At any time that a unanimous decision is not achieved within a reasonable time, the Chief Expert will put the matter under discussion to the vote. A majority will be 50% of the experts present plus one. This decision will be final. In the event that an expert is absent at the time that the vote takes place, he/she has the right to be informed of the decision but the matter will not be raised again or voted upon again. The exception to this majority rule will be in the case of approval of the changes to the Technical Description, where the majority of 80% is required.

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- 3.3.7 In the event that an extension of time is requested for the Competition to exceed the allotted hours, the matter must be discussed with the Jury President. All possible alternative solutions must be investigated before approval of an extension of time is requested, or will be approved.
- 3.3.8 Prior to the end of the Competition, the Jury President will facilitate the selection of the Chief Expert and Deputy Chief Expert for the next national Skills Competition.
- 3.3.9 Experts are eligible for selection as a Chief Expert if they:
- Have attended the National Skills Competition at least twice before (if less than 4 experts have been to the National Skills Competition before, this criterion may be relaxed at the discretion of the Jury President)
 - Demonstrate a high degree of expertise in the skill
 - Demonstrate leadership qualities.
 - Are competent using a computer and the Internet – specifically to facilitate the Discussion Forum for their skill category.
- 3.3.10 The process by which selection will take place is by secret ballot and is as follows:
- Each expert present will list their choice of three experts in order of preference • The Jury President will allocate a score of three (3) points to each experts first preference, two (2) points to the second preference and one (1) point to the third preference
 - The Jury President will then calculate total scores and announce the three highest scoring experts
 - The expert with the highest score will be appointed Chief Expert for the next National Skills Competition
 - If the first choice cannot attend, then the second choice will be Chief Expert
 - If the first and second choice cannot attend, then the third choice will attend

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- If none of the choices can attend, then the jury president will appoint, or facilitate the appointment of a Chief Expert
- The names of the selected experts will be entered into the provided documentation and signed by the Jury President and returned to the co-chair of the competitions committee.

3.3.11 Changes to the method of Competition design or suggestions offered for the next Competition design process or tasks must be written down and signed by 80% of the experts.

3.3.12 The Deputy Chief Expert's primary role is to ensure that the Technical Description is updated to reflect the technological advances of the skill category and include overall improvements for the preparation and running of the Competition. He/she will ensure that all changes to the Technical Description are entered, that all experts sign it, and that it is delivered to the co-chair of the competitions committee as a hard copy and digitally.

3.3.13 The Deputy Chief Expert also assists in the distribution and collection of the QAMS Audit Questionnaires and assists the Chief Expert where necessary.

3.4. HONESTY AND TRANSPARENCY

3.4.1 The competitors that attend the National Skills Competition have the right to expect fair and honest treatment during the Competition in terms of the following:

- Instructions that are clear and unambiguous
- Marking schedules that provide no advantage to an opposing competitor
- All necessary equipment and material specified within the skill documentation that are required to complete the Competition
- The assistance necessary from judges and officials to ensure that he is able to complete the project. (The assistance deemed necessary will be provided equally and at the same time to all competitors present)

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- No undue interference by officials or spectators that may hinder them in the completion of their project
- 3.4.2 Every competitor has the right to expect and demand that no opposing competitors will receive undue or unfair assistance or intervention that may provide that opposing competitor with an unfair advantage.
- 3.4.3 All officials and judges present on the Competition site are expected to ensure that paragraphs 3.4.1 and 3.4.2 above are complied with and maintained.
- 3.4.4 It is the responsibility of the Chief Expert or his Deputy to ensure that all competitors, interpreters, officials and judges comply with and maintain the integrity of the Competition, and additionally ensure that all necessary steps are taken to ensure that:
- Outside influences do not unduly improve or decrease competitors' abilities to provide a worthy performance.
- 3.4.5 A briefing will be provided to all experts and competitors on the requirements for integrity during the Competition.
- 3.4.6 Additionally, the Chief Expert is expected to identify these and any other factors that may exist on the Competition site that may result in the contravention of paragraphs 3.4.1 and 3.4.2 above, and reduce them to a checklist for continuous reference.
- 3.4.7 In the event that any competitor, judge, official, observer or competitor compatriot is found to be attempting to gain or provide assistance in any form that may result in an unfair advantage, the Chief Expert is to immediately refer the matter to the Jury President.
- 3.4.8 The Chief Expert will receive nominations and appoint a Security Officer whose responsibility it will be to ensure that these requirements are carried out.

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3.4.9 It will be explained to all experts and competitors that nothing is to come in or out of the site unless specified by the Chief Expert as being allowed after being briefed on this topic.

3.4.10 Security checks will be carried out each day on experts and competitors (by experts and competitors) upon entry and exit to the site.

3.5. INFORMATION POLICY

3.5.1 During the competition a modified project plan without measurements is to be made available to the public.

4. THEORETICAL KNOWLEDGE

4.1. INTERPRETATION OF DRAWINGS AND SKETCHES.

- Knowledge of masonry.
- Knowledge of materials and their application.

5. MATERIALS

5.1. MATERIALS AND AUXILIARY MATERIALS

- Bricks, slabs, stair steps, pavement stones (natural or artificial), wood
- Gravel, sand / stone chips
- Binding agents such as cement or dry concrete / dry mortar
- Soil substrates
- Plants
- Fixing materials such as stakes, wire, string, etc.
- Synthetic materials (Geo textile)

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5.2. DESIGN

The competitor is to prepare the plan (design). This plan as well as the specifications of material will be made available to all competitors before the competition.

6. WORKSHOP INSTALLATIONS

6.1 Each team will have a workstation of at least 11 x 11 m (test project needs approx. 7 x 7 m), as well as sufficient space for material preparation and storage and a resting place. For 6 to 8 teams, the space available for material preparation, storing, and resting must correspond to the proportional space available to one team (i.e. 6 or 8 teams x 11 x 11m).

- The workstation can be outdoors, as long as it is protected against rain and sun.
- The floor must be even and allow any required transport by building machines (small excavator, fork lift truck).
- At any time during the competition, access to the workstation must be ensured for the transport of the necessary material.

6.1.1 In the event that the workstation is outside, a cabin or similar will be required for the use of the competitors.

6.1.2 Water and electricity supply must be available.

6.1.3 Machines and equipment such as fork lift truck, small mechanical loader, table for cutting stones, cutting-off wheel, slab vibrator, etc. must be available (depending on the test project).

6.3 Each teams workspace shall have sufficient space to provide the 7m x 7m work area, as well as store material and plant and equipment – (11m x 11m)

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6.4 The following machines and tools will be required by each competitor:

- 1 wheelbarrow
- 2 shovels
- 2 spades
- 1 boning rod
- 10 tracing pegs
- 1 mortar trough
- Broom
- Nails
- Wedges

6.5 The team must also have the following equipment:

- Measuring instruments
- Double metre
- Pencil / greasy chalk
- Alignment string
- Plumb line
- Mallet
- Trowel
- Mason's hammer
- Square
- Spirit level
- Point tools
- Hand punch
- Jointer
- Spade
- Pruning shears
- Pruning saw
- Personal protection material (glasses, ear protection, etc.)

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7. TEST PROJECT MARKING

7.1 The experts will decide together on the test project and the marking criteria and they will prepare the material list.

7.2 Marks:

Perfect	=	10 points
Very good	=	9 points
Good	=	8 points
Rather good	=	7points
Sufficient	=	6 points
Medium	=	5 points
Weak	=	4 points
Insufficient	=	3 points
Very bad	=	2 points
Zero	=	1 point

7.3 Rating

Section	Item	Maximum Points
A	Measurement	10
B	Work process	10
C	Dimensions	10
D	Layout of green space	20
E	Floor materials	20
F	Other items	20
G	General impression	10

Points will also be awarded for creativity, innovation, speed etc. (This will be developed by the judges depending on the nature of the test project).

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8. COMPETITION PROCEDURE

- 8.1 The competition will be worked on two days. Wherever possible, modules will be completed on each day for all competitors so that progressive marking can take place, and for results to be made available each day.
- 8.2 Competitors will have time made available to familiarize themselves with material and processes. Where processes are particularly difficult, the competition's committee will provide a subject matter expert to demonstrate the process and the competitors will be given the opportunity to practice.
- 8.3 The complete test project will be given to the competitors at the familiarization session to be held before the first day of the competition. They will then complete each project in sequence for example complete project one then start project two and so on.
- 8.4 Prior to the start of the competition, each competitor will receive a detailed timetable reflecting the timing for the competition modules.
- 8.5 Aspects of this competition will be prejudged at the various locations prior to the days of the competition. **(To be decided by the Judges)**

9. JUDGING PROCEDURAL REQUIREMENTS

- 9.1 The experts that attend the competition will be divided into marking groups to deal with each section of the marking criteria.
- 9.2 Every completed module will be marked on the same day in which it was completed.

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10. GENERAL SAFETY REQUIREMENTS

10.1 All competitors must use safety glasses when using any hand, power or machine tools or equipment likely to cause or create chips or fragments that may injure the eyes.

10.2 All competitors must wear appropriate clothing and footwear.

10.3 All competitors must wear hearing protection when necessary.

10.4 Competitors must keep their workspace clear of obstacles and the floor space clean of material and equipment - any items likely to cause the competitor to trip, slip or fall.

10.5 Failure by the competitor to comply with safety directions or instructions may incur loss of marks for safety or penalties.