

# **BUILDING MAINTENANCE**

## **Purpose**

To evaluate each contestant's preparation for employment and to recognize outstanding students in the field of building maintenance.

**First, refer to General Regulations, Page 9.**

## **Clothing Requirement (At Nationals, Not required at district or state competitions. But is optional.)**

Official SkillsUSA khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.) To purchase official work clothes, contact the SkillsUSA Store by calling 1-800-401-1560 or order online at [www.skillsusastore.org](http://www.skillsusastore.org).

## **Eligibility**

Open to active SkillsUSA members enrolled in career and technical programs with entry-level job skills as the occupational objective. A letter from the appropriate school official on school letterhead stating that the contestant is classified under the provisions of Public Law 105-17, Individuals with Disabilities Education Act, 1997 is required for participation. State associations having restrictions on the release of this information may submit a letter on school letterhead of eligibility which simply states: "I certify that (student name) meets the eligibility requirements for the SkillsUSA Championships Building Maintenance contest. Signed (school official)." The eligibility letter is to be presented to the contest chair at the contestant orientation meeting. **(This is required at the national's level.)**

## **Equipment**

Most materials, supplies and equipment will be supplied by the technical committee. The contestant must supply the following:

1. One pair of plastic or rubber gloves with three-quarter sleeves
2. Hearing protection devices

## **Scope of the Contest**

1. Contestants will demonstrate their ability to perform tasks selected from the following list of competencies as determined by the SkillsUSA Championships technical committee. Committee membership includes the Kansas City Convention Center.

### **a. Floor Maintenance**

1. Vacuum, scrub, dust mop and wet mop various surfaces
2. Vacuum carpeted surface
3. Strip wax and clean hardwood, vinyl and tile surfaces
4. Operate a floor buffer
5. Identify types of surfaces and care needed for proper maintenance

### **b. Carpet Care**

1. Vacuum carpeted area
2. Bonnet clean carpeted area
3. Shampoo carpeted area by rotary floor machine or dry foam
4. Hot water extraction on carpeted area
5. Removal of stains or spots from carpeted area
6. Glossary of knowledge of carpet terms

### **c. Measure and Mix Chemicals**

1. Demonstrate steps and procedures to measure and mix chemicals
2. Demonstrate knowledge of custodial chemical terminology

### 3. Indicate knowledge and use of Manufacture Safety Data Sheets (MSDS)

#### **d. Custodial Safety**

1. Demonstrate knowledge of safe work practices in custodial services
2. Knowledge and practice of safety in use and handling of electrical equipment
3. Demonstrate knowledge and use of safety of ladders
4. Knowledge and use of safety in the measuring and mixing of chemicals
5. Indicate knowledge of color codes used in custodial cleaning equipment

#### **e. Office and Classroom Maintenance**

1. Demonstrate knowledge and procedures in cleaning office spaces and classrooms
2. Knowledge and use of tools, methods, supplies and equipment to make the rooms clean, hygienic and attractive

#### **f. Window Maintenance**

1. Wash windows using correct tools, supplies and equipment
2. Clean blinds, shades and shutters of various types

#### **g. Wall Maintenance**

1. Clean various wall surfaces to include painted, tiled, papered and plastered walls

#### **h. Restroom Maintenance**

1. Demonstrate steps and procedures to clean restrooms and showers
2. Clean toilet bowls, urinals and wash basins
3. Clean and disinfect restroom and shower ceilings, walls and floors

#### **i. General Maintenance**

1. Dust and clean furnace filters
  2. Dust and clean furniture and fixtures
  3. Fill dispensers such as soap, towels or paper
  4. Clean chalk boards
  5. Identify tools and materials used in custodial services
  6. Clean and disinfect kitchens, bath, toilet and other public facilities
  7. Properly collect and dispose of various forms of trash
2. Contestants may be asked to provide an oral explanation of a procedure or to answer a question, but there will be no written test.
3. Careful instruction and explanation of all tasks to be completed will be given to each contestant in both oral and written form to ensure that each contestant fully understands the assigned task.
4. Time limits will be assigned for each task, but no bonus points will be awarded for early completion.
5. The judging criteria and points assigned will be determined by the difficulty of the tasks assigned.

**(The competition for the State of Oklahoma will consist of 7 stations derived out of this scope.)**

**Additional resources are available on line. “Contest Singles” include prior year’s contests, official contest guidelines, the general section of the SkillsUSA Championships Technical Standards and any preparation tips offered by the national technical committee and education team. For more information, visit [www.skillsusa.org/singles.html](http://www.skillsusa.org/singles.html).**

At Regionals you must do 5 of the 7 National contests. At State you will do all 7. All students at State contest will compete wearing the nationally required uniform.

**STATION #1 FLOOR STRIPPING**

Floor Measurement: 8 X 8 Time Start \_\_\_\_\_ Time Finish \_\_\_\_\_ Contestant Number \_\_\_\_\_

**JUDGES CHECKLIST AND RATING SCALE FOR SkillsUSA CUSTODIAL SERVICES. CONTESTANT GETS ALL NEEDED EQUIPMENT BEFORE STARTING.**

	YES					NO
The contestant will identify the following supplies and equipment.						
Stripper Chemical	1					0
Stripper Mop	1					0
Rinse Mop	1					0
Buffer	1					0
Black Buffer Pad	1					0
Pad Driver	1					0
Hand Scrub Pads	1					0
Wet Vacuum	1					0
Wet Floor Signs	1					0
Paper Towels	1					0
Puts on safety glasses	5	4	3	2	1	0
Places wet floor sign at entrance	5	4	3	2	1	0
Loads mop with stripper	5	4	3	2	1	0
Cuts in room	5	4	3	2	1	0
Starts at far end of room	5	4	3	2	1	0
Uses C turns to mop	5	4	3	2	1	0
Mounts pad holder to buffer	5	4	3	2	1	0
Mounts pad correctly	5	4	3	2	1	0
Checks cord for damage	5	4	3	2	1	0
Adjust handle before plugging in	5	4	3	2	1	0
Works buffer slowly-avoids walls	5	4	3	2	1	0
Works buffer close as possible to wall	5	4	3	2	1	0
Overlaps strokes	5	4	3	2	1	0
Cord remains behind operator	5	4	3	2	1	0
Cord over shoulder or in pocket	5	4	3	2	1	0
Scrubs corners with hand pad	5	4	3	2	1	0
Picks up solution with wet vac	5	4	3	2	1	0
Picks up all chemical	5	4	3	2	1	0
Flood rinse floor with rinse water	5	4	3	2	1	0
Picks up rinse water with wet vac	5	4	3	2	1	0
Rinse floor with damp mop	5	4	3	2	1	0
Wipes baseboards	5	4	3	2	1	0
Checks floor for shiny spots	5	4	3	2	1	0
Returns all equipment	5	4	3	2	1	0
Signals judge when finished	5	4	3	2	1	0

(135) Total Points: \_\_\_\_\_

(-) Time Penalty: \_\_\_\_\_

Grand Total: \_\_\_\_\_

**5 point for every minute over 20**

## STATION #2 FLOOR FINISHING

Floor Measurement: 8 X 8 Time Start \_\_\_\_\_ Time Finish \_\_\_\_\_ Contestant Number \_\_\_\_\_

**JUDGES CHECKLIST AND RATING SCALE FOR SkillsUSA CUSTODIAL SERVICES. CONTESTANT GETS ALL NEEDED EQUIPMENT BEFORE STARTING.**

	YES					NO
The contestant will identify the following supplies and equipment.						
Finish	1					0
Finish mop	1					0
Wet floor signs	1					0
Puts on safety glasses	5	4	3	2	1	0
Places wet floor sign at entrance	5	4	3	2	1	0
Reads directions on finish	5	4	3	2	1	0
Loads mop with finish	5	4	3	2	1	0
Wrings out mop slightly controls drip	5	4	3	2	1	0
Cuts in floor keeps 6" from wall	5	4	3	2	1	0
Uses C turns to mop on finish	5	4	3	2	1	0
Checks to see if any spots missed	5	4	3	2	1	0
Returns all equipment to storage	5	4	3	2	1	0
Signals judge when finished	5	4	3	2	1	0
Overall workmanship quality	5	4	3	2	1	0

(58) Total Points: \_\_\_\_\_

(-) Time Penalty: \_\_\_\_\_

Grand Total: \_\_\_\_\_

**5 point penalty for each minute over 10**

# STATION #3 OFFICE CLEANING

Floor Measurement: 8 X 8 Time Start \_\_\_\_\_ Time Finish \_\_\_\_\_ Contestant Number \_\_\_\_\_

## JUDGES CHECKLIST AND RATING SCALE FOR SkillsUSA CUSTODIAL SERVICES. CONTESTANT GETS ALL NEEDED EQUIPMENT BEFORE STARTING.

	YES					NO
The contestant will identify the following supplies and equipment.						
Hand Duster	1					0
Vacuum Cleaner	1					0
Sanitizer	1					0
Paper Towels	1					0
Trashcan Liners	1					0
Observes safety rules	5	4	3	2	1	0
Picks up any trash on floor	5	4	3	2	1	0
Changes liner in trash can	5	4	3	2	1	0
Ties and opens new trash liner	5	4	3	2	1	0
Dust desk – sides and top	5	4	3	2	1	0
Dust chair – sides and seat	5	4	3	2	1	0
Check and adjust vacuum	5	4	3	2	1	0
Check vacuum cleaner bag	5	4	3	2	1	0
Check vacuum cleaner belt	5	4	3	2	1	0
Vacuums open area	5	4	3	2	1	0
Vacuum operation “style & efficiency”	5	4	3	2	1	0
Moves furniture	5	4	3	2	1	0
Vacuum behind furniture	5	4	3	2	1	0
Vacuum edges and chair	5	4	3	2	1	0
Moves furniture back (exact position)	5	4	3	2	1	0
Sanitize telephone	5	4	3	2	1	0
Spray clean desk	5	4	3	2	1	0
Items returned to desk with accuracy	5	4	3	2	1	0
Final strokes of vacuum (uniform look)	5	4	3	2	1	0
Returns all equipment	5	4	3	2	1	0
Signals judge when finished	5	4	3	2	1	0
Observation of walls & other objects	5	4	3	2	1	0
Contestants workmanship (overall)	10	8	6	4	2	0

(125) Total Points: \_\_\_\_\_

(-) Time Penalty: \_\_\_\_\_

Grand Total: \_\_\_\_\_

**5 points for every minute over 20**

# STATION #4 VACUUM CLEANER MAINTENANCE

Contestant Number \_\_\_\_\_

Time Limit not to exceed 10 minutes

**JUDGES CHECKLIST AND RATING SCALE FOR SkillsUSA. CONTESTANT WILL GET ALL NEEDED EQUIPMENT BEFORE STARTING.**

	YES					NO
The contestant will identify the following supplies and equipment.						
Puts on safety glasses	5	4	3	2	1	0
Can remove bag cover from vacuum	5	4	3	2	1	0
Replaces bag with new bag	5	4	3	2	1	0
Removes belt cover with correct tools	5	4	3	2	1	0
Replaces belt with new belt	5	4	3	2	1	0
Replaces belt cover correctly	5	4	3	2	1	0
Operates vacuum for proper operation	5	4	3	2	1	0
Returns all tools	5	4	3	2	1	0
Signals judge when finished	5	4	3	2	1	0
Overall workmanship quality	5	4	3	2	1	0

(50) Total Points: \_\_\_\_\_

(-) Time Penalty: \_\_\_\_\_

Grand Total: \_\_\_\_\_

**5 point penalty for each minute over 10**

**STATION #5 RESTROOM MAINTENANCE**

**Restroom Stimulator: 4 X 8 Time Start \_\_\_\_\_ Time Finish \_\_\_\_\_ Contestant Number \_\_\_\_\_**

**JUDGES CHECKLIST AND RATING SCALE FOR SkillsUSA CUSTODIAL SERVICES. CONTESTANT GETS ALL NEEDED EQUIPMENT BEFORE STARTING.**

	YES					NO
Check cart and proceed to restroom (Describe how to fill the cart if cart is unavailable). Describe that dispensers would be filled where necessary if unavailable.	5	4	3	2	1	0
Dust off lights, vents, fixtures, walls, floor, empty waste can.	5	4	3	2	1	0
Flush toilet, add proper cleaner to soak.	5	4	3	2	1	0
Spray/soak all surfaces with disinfectant cleaner (sink, counters, urinal).	5	4	3	2	1	0
Clean mirrors, walls/windows with glass cleaner.	5	4	3	2	1	0
Clean toilet interior surfaces with toilet cleaner, bowl, under rim, down to waste exit pipe, leave seat up.	5	4	3	2	1	0
With clean cloth, clean toilet exterior, under seat, top of bowl, top of seat, back of bowl, outside of bowl.	5	4	3	2	1	0
With clean cloth, clean all handles of sink, toilet, urinal, doors, etc. with disinfectant.	5	4	3	2	1	0
Clean floor and wall baseboard from back of room toward door/exit with disinfectant and rinse.	5	4	3	2	1	0
Spot clean and replace waste can. Clean and return tools to storage area.	5	4	3	2	1	0

(50) Total Points: \_\_\_\_\_

(up to 5% of score) Clothing Penalty: \_\_\_\_\_

Grand Total: \_\_\_\_\_

**5 point penalty for every minute over 20**

# STATION #6 CHEMICAL RATIO MIXTURES

Time Start \_\_\_\_\_ Time Finish \_\_\_\_\_ Contestant Number \_\_\_\_\_

**JUDGES CHECKLIST AND RATING SCALE FOR SkillsUSA CUSTODIAL SERVICES. CONTESTANT GETS ALL NEEDED EQUIPMENT BEFORE STARTING.**

	YES					NO
Mix 1:8 ratios for one gallon of window cleaner (1 gallon water/16 oz. chemical)						
Personal protection equipment on	5	4	3	2	1	0
Measure all chemicals using correct measuring equipment	5	4	3	2	1	0
Views measure at eye level	5	4	3	2	1	0
Adds water to container first	5	4	3	2	1	0
Adds chemical to container without splash	5	4	3	2	1	0
Rinses measuring equipment in mixture	5	4	3	2	1	0
Cleans up any spills	5	4	3	2	1	0
Properly labels mixture	5	4	3	2	1	0
Signals judge when finished	5	4	3	2	1	0

(45) Total Points: \_\_\_\_\_

(-) Time Penalty: \_\_\_\_\_

Chemical ratio problems score: \_\_\_\_\_

Grand Total: \_\_\_\_\_

**5 point penalty for each minute over 10**

## CHEMICAL RATIO PROBLEMS



## STATION #6 CHEMICAL RATIO PROBLEMS

Contestant Number \_\_\_\_\_

Contestant must figure the amount of chemical needed for one-gallon mixture.

### Problem #1

1:10 = \_\_\_\_\_ ounces of chemical per gallon of water

### Problem #2

1:8 = \_\_\_\_\_ ounces of chemical per gallon of water

### Problem #3

1:50 = \_\_\_\_\_ ounces of chemical per gallon of water

### Problem #4

1:32 = \_\_\_\_\_ ounces of chemical per gallon of water

Each problem is worth 5 points each. Total Points \_\_\_\_\_

**(Add to Chemical Ratio mixture score sheet)**

**STATIONS #7 BONNET SCRUBBING & EXTRACTING CARPETS**

Floor Measurement: 8 X 8 Time Start \_\_\_\_\_ Time Finish \_\_\_\_\_ Contestant Number \_\_\_\_\_

**JUDGES CHECKLIST AND RATING SCALE FOR SkillsUSA CUSTODIAL SERVICES. CONTESTANT GETS ALL NEEDED EQUIPMENT BEFORE STARTING.**

	YES					NO
Set up appropriate sign	5	4	3	2	1	0
Select spot remover	5	4	3	2	1	0
Spray on spot	5	4	3	2	1	0
Blot the stain with a rag and state that you do not rub the stain because it will spread.	5	4	3	2	1	0
Select traffic lane cleaner	5	4	3	2	1	0
Spray traffic lane	5	4	3	2	1	0
Select foam carpet shampoo and bonnet	5	4	3	2	1	0
Mix solution and soak bonnet	5	4	3	2	1	0
Wring out bonnet and place on floor	5	4	3	2	1	0
Place machine over bonnet and scrub carpet in a back and forth motion.	5	4	3	2	1	0
Select solution for carpet extraction and mix one gallon in machine.	5	4	3	2	1	0

(55) Total Points: \_\_\_\_\_

(up to 5% of score) Clothing Penalty: \_\_\_\_\_

Grand Total: \_\_\_\_\_

**5 point penalty for each minute over 20**

**SKILLSUSA CHAMPIONSHIPS  
BUILDING MAINTENANCE RATING SHEET**

		<b>Contestant Number</b>					
<b>Items Evaluated</b>	<b>Possible Points</b>						
<b>S1 Floor Stripping</b>	<b>135</b>						
<b>S2 Floor Finish</b>	<b>58</b>						
<b>S3 Office Cleaning</b>	<b>125</b>						
<b>S4 Vacuum Maintenance</b>	<b>50</b>						
<b>S5 Restroom Maintenance</b>	<b>50</b>						
<b>S6 Chemical Ratio Mixing/Problems</b>	<b>65</b>						
<b>S7 Bonnet Scrubbing &amp; Extracting Carpets</b>	<b>55</b>						
<b>Subtotal</b>	<b>538</b>						
<b>Resume (minus 0-5 of total points)</b>							
<b>Clothing Penalty (minus 0-5 of total points)</b>							
<b>Total</b>							