#### **Bowling**



Bowling is the most popular SO sport. There are two disciplines, five and ten pin, that share the same basic technique. Five-pin bowling is the more popular of the two types of bowling in Canada, and the main differences besides the number and the size of pins, is the size and weight of the ball. The weight of a 10-pin ball varies from 10 to 16 pounds (4.5 to 7.25 kg) compared to a ball that is almost 25% lighter for 5-pin (3.6 to 3.8 pounds). Ten-pin requires more strength than 5-pin bowling, and ball weight differences can explain why 5-pin is so popular. Heavier balls have more energy to knock down pins than lighter ones and the same can be said for fast travelling balls compared to slower moving ones. Precision, ball speed and consistency of ball deliveries are the three main elements of basic skill acquisition for both disciplines. Fitting the right bowling ball to each athlete and finding the appropriate speed are important parts of a consistent approach and are rarely done in SO.

Bowling is an activity that comes easy to SO participants, it requires little equipment, and shoes and balls are usually supplied by bowling centers. Picking up a ball and aiming at pins is both easy to do and with some luck, strikes are always possible. SO bowler's skill levels vary a lot. Some deliver balls with two hands, while others have excellent three steps approaches, and some even require a ramp for ball delivery due to physical limitations.

There are many skills to learn in bowling such as the step approach, correct ball speed, straight, curve and hook balls, all with different spin speeds. Although there are some excellent SO bowlers, most SO bowlers have low precision because of low consistency in their deliveries. The results are widely inconsistent games and very little progress even after participating for many years. Unless a focused approach is initiated with proper fitting balls and consistent deliveries, participants will be struggling with their scores.

Skills required for consistent bowling deliveries are listed in the bowling basic skill (upcoming pages). These sheets can be used as a guide, and when all skills are marked "yes", bowlers can consistently hit the front pin and are ready for more advanced intermediate skills where 5-pin and 10-pin techniques are quite

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different due to different "pocket sizes", space between pins, ball speed and spins required.

## Guidelines for using the skill sheets (next page) for bowling

- 1. Bowlers are fitted with the proper ball and have proper grip.
- 2. When this is acquired (usually very fast), it is then time to start on the three-step approach.
- 3. Repeat all skills together as they are acquired. For example, an athlete can be working on releasing the ball past the foul line but would have to have correct grip and proper three-step approach.
- 4. Follow each step of the skill sheet (next page) until bowling basics are acquired.

# Bowling (5-pin) Basic Skills

Basic Skill:	YES	NO	Comments
Sub Skills (one hand delivery unles	ss limit	ed by physical c	disabilities)
Hold the ball (hand on top of ball)			
Using a properly fitting ball			
3 steps (start and end points) Always the same and straight line			
Release ball past foul line			
Watching the target			
Ball close to body (side)			
Shoulder square to pins			
Perpendicular back swing			
Low-ball delivery (knee 90°) High follow through			
Minimum speed (Men 2 sec.or less-release to pins) (Women 2.5 sec.or less-release to pins)			
Hitting top pin (5/10) (With 3-step approach)			
Hitting top 3 pins (7/10) (With 3-step approach)			

When athletes achieve all "YES", they have acquired basic skills. Expectations are critical to skill acquisition.

# **Bowling (10-pin) Basic Skills**

Basic Skill:		NO	Comments
Sub Skills (one hand delivery unles	ss limit	ed by	physical disabilities)
Using a properly fitting ball			
4-step (start and end points) Always the same and straight line			
Release ball past foul line Watching the target			
		$\overline{\Box}$	
Ball close to body (side)			
Shoulder square to pins	Ш		
Perpendicular back swing			
Arm holding ball Always straight (throughout)			
Low-ball delivery (knee 90°) High Follow through			
Minimum speed (Men 2.5 sec.or less-release to pins) (Women 4.5 sec.or less-release to pins)			
Hitting top pin (7/10)			
Hitting top 3 pins (9/10) (4 Steps approach)			
Curved ball capable Hitting top 3 pins 7/10			

When athletes achieve all "YES", they have acquired basic skills. Expectations are critical to skill's acquisition.

## 20-hour acquisition

#### Skill Breakdown: Examples of priority elements to focus on during practice

### Spend time on each one until acquired

1. Approach: Three or four steps - Starting and finishing always at

the same sport - Holding the ball - Having the right

ball

2. Delivery: Spot bowling – Acceleration throughout – Low

delivery (front knee at 90•) - Follow through - Balance

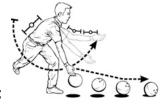
at end of throw

3. Straight Ball: Hands position – Leg action –

4. Curve/Hook Ball: Hand position - Arm delivery - Accuracy - Rotation

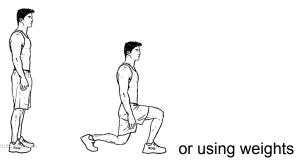
speed

Each skill requires a 20-hour program. The most important one, Delivery (without three steps approach) is acquired first. The other ones will follow later.



## Home skill practice is possible for bowling:

Most SO bowlers don't get low enough on ball delivery. Practicing correct delivery position can be done at home.





**Bowling Example: Focused Basic Skills Session (1 hour)** (Performance objectives of 50% accuracy: hitting front pin)

Practice only one skill at a time and don't worry about perfect technique, bowl as much as possible: Example "Delivery"

(15' = 15 minutes)

- 15' Warm up and stretching (before bowling)
  Practice Delivery, balance and high hand finish during warm up
- 5' Warm up Throwing as many balls as possible with the same approach Perform pendulum swings while waiting



40' Delivery (with video and correct examples, slow down the demonstration when introducing a new skill, use hands to guide movements when necessary)

- With one foot just in front of the foul line aiming at arrows in the alley (15 feet ahead) and dots on the foul line (using one hand) throw 6 consecutive balls
- With one foot just in front of the foul line Straight ball target bowling using towels\* between the desired arrows (six balls)
- With one foot just in front of the foul line. Change towel\* location for different arrows and dots (6 throws on each location)
- With one foot just in front of the foul line. Curve ball target bowling with towels\* (six throws on each location)

\* Color stripes on the alley also works well





<sup>\*</sup> Coaches can also help delivery and aim

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15' One game (keep track of scores)

Don't worry about delivery quality, just try to hit each target and finish each delivery with high hand follow through. When precision is around 50% (5-pin) and 80% (10-pin) incorporate a three or four steps approach.

Ten-pin should use the curve ball technique as soon as possible.

#### Conclusion:

Unless consistent deliveries are achieved, SO bowlers will continue to struggle with precision and inconsistent scores. Many SO bowlers have functional disabilities making "normal" deliveries difficult. In these cases, special lighter balls and ramps should be used. It is possible to have consistent deliveries after a 20-hour program. Using the skill sheet is an excellent way to learn basic bowling skills and encourage athletes to practice often. The more time spent practicing with a focused approach, the better each SO athlete will become. More advanced skills such as reading lanes and pin behavior, different spins and different balls will follow when basic skills are acquired.

Bowling does not elevate the heart rate high enough to significantly contribute to healthy living, therefore Club Fit sessions, personal training and participating in another sport are necessary.

# Changing Expectations in Special Olympics

# **Lesson Plan** Basic Skill Acquisition Program (weekly or monthly)

Sport	Athlete Name:
	Program Expectations
1- Weekly Practic	e (attend all practices)
Day (S)	Time
Location	
"What the group is	working on":
<b>2- Club Fit</b> 100%	ttendance (Including Functional Testing exercises)
Day	Time
Location	
"What you need to	concentrate on":
3- Basic Skill Dev	lopment Homework (4 times per week - 1 hour per day)
Skill	
"Individual Home I	ractice Objectives"