**Filling a Syringe for Injection**

*Participant must talk through practicum steps with judge.*

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| **CRITERIA**  | PointsPossible | PointsEarned |
| The student determines the amount to be placed in the syringe. * Student reads veterinary orders to determine amount of medication – 3pts
* Student verifies that he/she has the correct drug for the order – 3 pts
 | 6 |  |
| The student selects the proper-sized syringe. * Student chooses syringe size based on dosage amount (i.e. smaller syringe for smaller dosage)– 2 pts
* Student applies label with veterinary orders to syringe – 2 pts
* Student chooses needle size appropriate for patient, medication, and injection type – 2 pts
* Student applies needle to syringe by twisting clockwise – 2 pts
 | 8 |  |
| The student inserts the syringe into the top of the bottle. * Student cleans top of bottle with alcohol – 2 pts
* Student pulls plunger down to equal the volume of medication to be drawn – 1 pts
* Student removes needle cap – 1 pts
* Student inserts needle through rubber stopper – 2 pts
 | 6 |  |
| The student places the bottle upside down in one hand and holds securely. * Student depresses plunger to expel air into vial – 2 pts
* Student securely holds bottle in one hand and syringe in the other hand – 2 pts
* Student carefully inverts bottle – 2 pts
 | 6 |  |
| The student withdraws the proper volume. * Student ensures liquid is covering needle tip – 1pts
* Student holds syringe at eye level – 1 pts
* Student pulls plunger down so that the top of the black stopper is aligned to the proper amount - 2 pts
* Student pulls plunger slightly farther to account for air bubbles – 2 pts
 | 6 |  |
| The student removes the syringe from the bottle. * Student maintains needle and syringe in upright position – 3 pts
* Student removes needle from bottle – 3 pts
 | 6 |  |
| The student gently taps or snaps the edge of the syringe to remove any air bubbles, or slightly expel the air by pushing the end of the plunger. * Student continues to hold needle upright – 1 pts
* Student gently flicks the syringe to move air bubbles to top – 1 pts
* Student depresses plunger to expel air and excess medication from syringe – 2 pts
* Student checks to ensure he/she has maintained proper dosage – 2 pts
 | 6 |  |
| The student places syringe in the sharps container. * Student carefully removes needle by twisting counter clockwise – 3 pts
* Student puts used needle in sharps container – 3 pts
 | 6 |  |
| **TOTAL POINTS**  | **50** |  |

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| **Recommended Needle Sizes** |
|  | **Subcutaneous (SQ)** | **Intramuscular (IM)** | **Intravenous (IV)** |
| **Dog & Cat**  | ¾“ x 22 ga | 1” x 22 ga | \*\*\*  |
| **Horse**  | 1” x 18 ga | 1½” x 18 ga | 1½” x 18 ga |
| **Colt**  | ¾” x 20 ga | 1” x 20 ga | 1” x 20 ga |
| **Cow**  | 1” x 16 ga | 1” x 16 ga | 1½” x 16 ga |
| **Calf**  | ¾” x 16 ga | 1” x 16 ga | 1” x 18 ga |
| **Goat**  | ¾” x 22 ga | 1” x 18 ga | \*\*\*  |
| **Sheep**  | ¾” x 18 ga | 1” x 18 ga | 1” x 18 ga |
| **Hog**  | ¾” x 18 ga | 1” x 18 ga | 2” x 18 ga |
| **Sow**  | 1” x 18 ga | 1” x 18 ga | 4” x 18 ga |
| **Pig**  | ½” x 20 ga  | 1” x 18 ga | 1” – 1½” x 20 ga |
| **Poultry**  | 5/8” x 25 ga | ¾” x 22 ga | \*\*\*  |