**Filling a Syringe for Injection**

*Participant must talk through practicum steps with judge.*

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| **CRITERIA** | Points  Possible | Points  Earned |
| 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 | \*\*\* |