

## **STATION #1: HEALTH & CATTLE HANDLING**

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### **STATION PURPOSE:**

Team members will be evaluated on effective stockmanship for proper health related practices, not limited, to proper vaccination procedures and protocols, dose administration and equipment selection, parasite control, castration procedures and other health related practices essential for the beef industry and animal welfare along with handling of cattle.

### **STATION STRUCTURE:**

This station will involve a series of in-depth questions pertaining to Iowa's Beef Quality Assurance (BQA) Program using Best Management Practices (BMPs) and techniques necessary to produce safe, healthy, and wholesome beef for consumers. This station may include written, multiple selection answers, and/or verbal answers.

- ***In the case of a three member team, only two will participate, the third will be an observer.***

### **AREAS OF STUDY:**

#### **Health**

##### **Vaccinations:**

- Explain BQA's Best Management Practices, techniques, procedures, and reading labels.
- What is the goal of a vaccination program? Be able to share a pre-conditioning program with the judges and include appropriate bacterial diseases within a vaccination program.
- What is the difference between Modified Live and Killed vaccines?
- How should they be handled and/or stored for use within a beef cow/calf herd or feedlot?
- What gauge/length of needle is appropriate - Intramuscular (IM) & Subcutaneous (SQ) injections?
- What is the proper dosage necessary for a given bodyweight animal using drug labels, difference between the two BQA injection techniques & locations, and rationale for specific mode of action?

##### **Biosecurity:**

- Explain daily biosecurity practices necessary to implement on a beef cattle farm and during a disease outbreak.
- Disease control and prevention- FMD, BSE, *E. coli*, *Salmonella*, *Listeria*, and pathogen vectors.

##### **Internal/External Parasite Control:**

- Explain difference between an Endectocide, Endoparasiticide, and Ectoparasiticide?
- Demonstrate placement and procedure for using injectables, topicals, and drenches.
- Why is it important to treat/prevent internal and external parasites?

##### **Implants/Ear and Fly Tag Placement:**

- Explain the importance and value to the beef industry using implants and ear / fly tags.
- Demonstrate proper placement of implants, tags – BQA guidelines

##### **Dehorning/Castration:**

- Explain different techniques used for dehorning and/or castration of livestock.
- Describe products available for pain management?
- How do age and weather affect these procedures?

#### **Handling of Cattle**

##### **Effective Stockmanship of Livestock:**

- Explain proper body positioning within a pen for effective movement of cattle and worker safety.
- Describe the importance of effective stockmanship to beef production & beef product safety.
- What pre-planning steps are necessary before hauling, transporting, or unloading livestock?
- How does handling impact the quality of beef produced - 2016 National Beef Quality Audit?

### **AVAILABLE RESOURCES:**

- Beef Quality Assurance - [www.bqa.org](http://www.bqa.org); <http://www.bqa.org/national-beef-quality-audit>
- Iowa Beef Industry Council <http://www.iabeef.org/resources/producer-resources/iowa-beef-quality-assurance-program>
- Iowa State University Veterinary Medicine - <http://www.cfsph.iastate.edu/DiseaseInfo/> and [http://www.cfsph.iastate.edu/Infection\\_Control/Species/cattle.php](http://www.cfsph.iastate.edu/Infection_Control/Species/cattle.php)
- Iowa Beef Center – [www.iowabeefcenter.org](http://www.iowabeefcenter.org)