

# Irrigation Technologist Skill Standards Template A

## *Summary of Functions & Tasks for Irrigation Technologists:*

### **Critical Work Function**

### **Key Activity**

#### **A. Design System**

- A1. Assess soil, topography, weather and water availability
- A2. Select irrigation system
- A3. Develop irrigation system layout

#### **B. Install System**

- B1. Perform pre-construction walk-through
- B2. Mark field location of all system components
- B3. Water supply
- B4. Install underground equipment
- B5. Assemble or install above ground equipment
- B6. Test system

#### **C. Operate System**

- C1. Operate system
- C2. Monitor crops and soils for irrigation schedule
- C3. Set irrigation schedule
- C4. Adjust irrigation equipment
- C5. Properly chemigate and fertigate

#### **D. Maintain & Repair System**

- D1. Perform preventive maintenance
- D2. Perform annual system start-up
- D3. Winterize system
- D4. Update system
- D5. Trouble-shoot mechanical equipment failures
- D6. Trouble-shoot electrical equipment failures
- D7. Identify computer equipment failures