

Irrigation Technologist Skill Standards Template A

Summary of Functions & Tasks for Irrigation Technologists:

Critical Work Function

Key Activity

A. Design System

- A1. Determine crop or cropping sequence
- A2. Assess soil, topography, weather and water availability
- A3. Select irrigation system
- A4. Develop irrigation system layout

B. Install System

- B1. Perform pre-construction walk-through
- B2. Mark field location of all system components
- B3. Stage the job
- B4. Install water supply
- B5. Install underground equipment
- B6. Assemble or install above ground equipment
- B7. Test system

C. Operate System

- C1. Operate system
- C2. Monitor crops and soils
- C3. Adjust irrigation schedule
- C4. Adjust irrigation equipment
- C5. Apply chemicals

D. Maintain System

- D1. Manage inventory
- D2. Perform preventive maintenance
- D3. Perform annual system start-up
- D4. Rebuild system components
- D5. Winterize system
- D6. Update system

E. Repair System

- E1. Trouble-shoot mechanical equipment failures
- E2. Trouble-shoot electrical equipment failures
- E3. Trouble-shoot computer equipment failures