

Irrigation Technologist Skill Standards Template A

Summary of Functions & Tasks for Irrigation Technologists:

<u>Critical Work Function</u>	<u>Key Activity</u>
A. Design System	A1. Determine crop or cropping sequence A1 ² . Assess soil, topography, weather and water availability A2 ³ . Select irrigation system A3 ⁴ . 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 B3 ⁴ . Install w ^{Water} ater supply B4 ⁵ . Install underground equipment B5 ⁶ . Assemble or install above ground equipment B6 ⁷ . Test system
C. Operate System	C1. Operate system C2. Monitor crops and soils <u>for irrigation schedule</u> C3. Adjust <u>Set</u> irrigation schedule C4. Adjust irrigation equipment C5. Apply chemicals <u>Properly chemigate and fertigate</u>
D. Maintain & Repair System	D1. Manage inventory D1 ² . Perform preventive maintenance D2 ³ . Perform annual system start-up D4. Rebuild system components D3 ⁵ . Winterize system D4 ⁶ . Update system
E. Repair System	D5E1. Trouble-shoot <u>Identify</u> mechanical equipment failures D6E2. Trouble-shoot electrical equipment failures D7E3. Trouble-shoot <u>Identify</u> computer equipment failures

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