# UTILITY WORKER SPECIALIST - WATER SECTOR INFRASTRUCTURE

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| **RESOURCE CATEGORY** | Public Works |
| **RESOURCE KIND** | Personnel |
| **OVERALL FUNCTION** | The Utility Worker Specialist – Water Sector Infrastructure supports the repair, restoration and operation of water/wastewater infrastructure systems and facilities |
| **COMPOSITION AND ORDERING SPECIFICATIONS** | 1. This position can be ordered as a single resource.<br>2. This position can be ordered in conjunction with a National Incident Management System (NIMS)-typed team (Operations Team – Water Treatment Facility; Operations Team – Wastewater Treatment Facility; Plant Utility Control Systems Team – Water Sector Infrastructure; Repair and Start-Up Team Lift and Pump Stations – Wastewater Facility; Repair and Start-Up Team Water Pump Facilities – Water Production; Repair Team – Water Distribution System; Repair and Start-Up Team – Water Treatment Facility; Repair and Start-Up Team – Wastewater Treatment Facility; Repair Team Sewer Mains – Wastewater; Sewer System Closed Circuit Television Team – Wastewater; System Flushing and Flow Testing Team – Water Distribution; Water Main Leak Locating Team – Water Distribution)<br>3. Discuss logistics for deploying this position, such as working conditions, length of deployment, security, lodging, transportation and meals, prior to deployment<br>4. Requestor specifies the types of skills or skilled workers necessary, such as mechanic (engine, pump or machinist), electrician, welder, repair technician (distribution, production, collections, treatment or radio), field sampling or other water/wastewater skills<br>5. Requestor and provider discuss safety and work environment prior to deployment<br>6. This position typically works 12 hours per shift, is self-sustainable for 72 hours and is deployable up to 14 days |

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

| COMPONENT | SINGLE TYPE | NOTES |
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| **DESCRIPTION** | The Utility Worker Specialist – Water Sector Infrastructure supports the repair, restoration and operation of water/wastewater facilities and systems | Not Specified |
| **EDUCATION** | Not Specified | Not Specified |
| **TRAINING** | Completion of the following:<br>1. IS-100: Introduction to the Incident Command System, ICS-100<br>2. IS-200: Basic Incident Command System for Initial Response, ICS-200<br>3. IS-700: An Introduction to the National Incident Management System<br>4. IS-800: National Response Framework, An Introduction | The NIMS Training Program defines a national baseline to guide and promote NIMS training. It provides recommendations to assist the Authority Having Jurisdiction (AHJ) in developing their own training plans, tailored to their specific needs |
| **EXPERIENCE** | 1. Knowledge of water/wastewater system operations<br>2. Knowledge of operating characteristics and safety procedures for equipment operation<br>3. Knowledge of materials, tools and equipment typically used in maintenance or construction<br>4. Knowledge of hazards and safety measures related to the work assignment | AHJ determines the necessary experience level based on response needs |

| COMPONENT | SINGLE TYPE | NOTES |
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| **PHYSICAL/MEDICAL FITNESS** | 1. Moderate<br>2. Is able to work while wearing appropriate Personal Protective Equipment (PPE)<br>3. Is able to regularly lift and carry up to 50 pounds<br>4. Maintains immunizations in accordance with current AHJ requirements | 1. The NIMS Guideline for the National Qualification System (NQS) defines Physical/Medical Fitness levels for NIMS positions<br>2. PPE is mission specific and may vary by working environment; it includes protective footwear, protective clothing for skin exposure, eye and ear protection, respirators, gloves and masks |
| **CURRENCY** | Functions in this position during an operational incident, planned event, exercise, drill or simulation at least once every five years | Not Specified |
| **PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS** | Not Specified | 1. Certification varies from state to state; AHJ specifies the type and level of certification necessary for the assignment based on skillset–such as operator certification, journeyman license, Automotive Service Excellence (ASE) mechanic certification or electrician's license<br>2. AHJ determines reciprocity or equivalency with the providing jurisdiction before deployment |

## NOTES

Nationally typed resources represent the minimum criteria for the associated component and capability.

## REFERENCES

1. FEMA, NIMS 508: Operations Team – Water Treatment Facility
2. FEMA, NIMS 508: Operations Team – Wastewater Treatment Facility
3. FEMA, NIMS 508: Plant Utility Control Systems Team – Water Sector Infrastructure
4. FEMA, NIMS 508: Repair and Start-Up Team Lift and Pump Stations – Wastewater Facility
5. FEMA, NIMS 508: Repair and Start-Up Team Water Pump Facilities – Water Production
6. FEMA, NIMS 508: Repair Team – Water Distribution System
7. FEMA, NIMS 508: Repair and Start-Up Team – Water Treatment Facility
8. FEMA, NIMS 508: Repair and Start-Up Team – Wastewater Treatment Facility
9. FEMA, NIMS 508: Repair Team Sewer Mains – Wastewater
10. FEMA, NIMS 508: Sewer System Closed Circuit Television Team – Wastewater
11. FEMA, NIMS 508: System Flushing and Flow Testing Team – Water Distribution
12. FEMA, NIMS 508: Water Main Leak Locating Team – Water Distribution
13. FEMA, NIMS, October 2017
14. FEMA, NIMS Guideline for the NQS, November 2017
15. FEMA, National Response Framework, October 2019