

Resource Typing Definition for Response Infrastructure Systems

STRUCTURAL ENGINEER

RESOURCE CATEGORY	Public Works
RESOURCE KIND	Personnel
OVERALL FUNCTION	The Structural Engineer oversees, inspects, and assesses impacted structures in the aftermath of an incident and makes appropriate recommendations
COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. This position can be ordered as a single resource 2. Discuss logistics for deploying this position, such as working conditions, length of deployment, security, lodging, transportation, and meals, prior to deployment

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
DESCRIPTION	The Structural Engineer: <ol style="list-style-type: none"> 1. Oversees, inspects, and assesses impacted structures and makes appropriate recommendations 2. Provides structural engineering support during emergency response and recovery operations 	Not Specified
EDUCATION	Bachelor's degree in civil or structural engineering, or in architecture with a structural engineering emphasis	Not Specified
TRAINING	Completion of the following: <ol style="list-style-type: none"> 1. IS-100: Introduction to the Incident Command System, ICS-100 2. IS-200: Basic Incident Command System for Initial Response, ICS-200 3. IS-700: National Incident Management System, An Introduction 4. IS-800: National Response Framework, An Introduction 	Not Specified
EXPERIENCE	Five years of relevant experience	Not Specified



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COMPONENT	SINGLE TYPE	NOTES
PHYSICAL / MEDICAL FITNESS	<ol style="list-style-type: none">1. Moderate2. Is able to work while wearing appropriate Personal Protective Equipment (PPE)	<ol style="list-style-type: none">1. NIMS Guideline for the National Qualification System (NQS) defines physical/medical fitness levels for NIMS positions.2. PPE is mission specific and may vary by work environment; it includes hard hats, safety-toe boots, reflective vests, eye and ear protection, respirators, gloves, and masks.
CURRENCY	Currently works in this position in a municipal, county, state, tribal, or territorial public works or engineering department	Not Specified
PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS	Professional Engineer (PE) or Professional Structural Engineer (SE)	Not Specified



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NOTES

1. Nationally typed resources represent the minimum criteria for the associated component and capability.
2. This document contains references to non-Federal resources and materials. Such references do not constitute an endorsement by the U.S. government, or any of its employees, of the information or content which a non-Federal resource or material provides.

REFERENCES

1. FEMA, National Incident Management System (NIMS), October 2017
2. FEMA, NIMS Guideline for the National Qualification System (NQS), November 2017
3. FEMA, National Response Framework, October 2019