



## STRUCTURAL ENGINEER

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

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
<b>DESCRIPTION</b>	<p>The Structural Engineer:</p> <ol style="list-style-type: none"> <li>1. Oversees, inspects and assesses impacted structures and makes appropriate recommendations</li> <li>2. Provides structural engineering support during emergency response and recovery operations</li> </ol>	Not Specified
<b>EDUCATION</b>	Bachelor's degree in civil or structural engineering, or in architecture with a structural engineering emphasis	Not Specified
<b>TRAINING</b>	<p>Completion of the following:</p> <ol style="list-style-type: none"> <li>1. IS-100: Introduction to the Incident Command System, ICS-100</li> <li>2. IS-200: Basic Incident Command System for Initial Response, ICS-200</li> <li>3. IS-700: National Incident Management System, An Introduction</li> <li>4. IS-800: National Response Framework, An Introduction</li> </ol>	Not Specified
<b>EXPERIENCE</b>	One year of professional engineering experience following Professional Engineer (PE) or Professional Structural Engineer (SE) licensure	Not Specified
<b>PHYSICAL/MEDICAL FITNESS</b>	<ol style="list-style-type: none"> <li>1. Moderate</li> <li>2. Is able to work while wearing appropriate Personal Protective Equipment (PPE)</li> </ol>	<ol style="list-style-type: none"> <li>1. The National Incident Management System (NIMS) Guideline for the National Qualification System (NQS) defines physical/medical fitness levels for NIMS positions.</li> <li>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.</li> </ol>
<b>CURRENCY</b>	Currently works in this position in a municipal, county, state, tribal or territorial public works or engineering department	Not Specified
<b>PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS</b>	PE or SE	Not Specified



Position Qualification for Infrastructure Systems  
Public Works

## NOTES

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

## REFERENCES

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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