# Structural Engineer

**Position Qualification for Infrastructure Systems**  
**Public Works**  

**MARCH 2021 - STRUCTURAL ENGINEER 1 OF 2**

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**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**  
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.

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| **DESCRIPTION** | The Structural Engineer:  
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:  
1. IS-100: Introduction to the Incident Command System, ICS-100  
2. IS-200: Basic Incident Command System for Initial Response, ICS-200  
| **EXPERIENCE** | One year of professional engineering experience following Professional Engineer (PE) or Professional Structural Engineer (SE) licensure | Not Specified |
| **PHYSICAL/MEDICAL FITNESS** | 1. Moderate  
2. Is able to work while wearing appropriate Personal Protective Equipment (PPE) | 1. The National Incident Management System (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** | PE or SE | Not Specified |
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NOTES
Nationally typed resources represent the minimum criteria for the associated component and capability.

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