



## GEOLOGY FIELD RECONNAISSANCE SPECIALIST

<b>RESOURCE CATEGORY</b>	Damage Assessment
<b>RESOURCE KIND</b>	Personnel
<b>OVERALL FUNCTION</b>	The Geology Field Reconnaissance Specialist observes, photographs, and quantitatively describes the location of physical evidence related to geological consequences for, and disaster impacts on, both built and natural environments
<b>COMPOSITION AND ORDERING SPECIFICATIONS</b>	<ol style="list-style-type: none"> <li>1. This position can be ordered as a single resource or in conjunction with a NIMS typed team (Geology Field Reconnaissance Team).</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 Geology Field Reconnaissance Specialist:</p> <ol style="list-style-type: none"> <li>1. Collects data on geo-hazard related emergencies to augment and support the efforts of the requesting agency or state</li> <li>2. Supports the collection, compilation, and analysis of geological and geotechnical data during an investigation of a geologic incident using underground, ground, and aerial observations</li> <li>3. Observes, describes, photographs, and quantitatively assesses the consequences of ground failure, ground shaking, soil-structure interaction, tsunami inundation, wave height, and velocity characteristics related to a wide range of geo-hazards and threats, such as earthquakes, tsunamis, volcanoes, flooding, and dam failures</li> <li>4. Supports data delivery to Emergency Operations Center (EOC) or technical information clearinghouse</li> <li>5. Contributes to final reconnaissance report on incident</li> </ol>	Not Specified
<b>EDUCATION</b>	Bachelor's degree in geology, seismology, hydrology, geophysics, engineering geology, geotechnical engineering, or other discipline related to earth science	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



Position Qualification for Risk Management for Protection Programs and Activities  
Damage Assessment

COMPONENT	SINGLE TYPE	NOTES
<b>EXPERIENCE</b>	Knowledge, Skills, and Abilities: <ol style="list-style-type: none"> <li>1. Knowledge of geo-hazard principles</li> <li>2. Familiarity with various data collection forms and equipment for field documentation</li> <li>3. Ability to use word processing, spreadsheet, and simple graphics programs</li> <li>4. Familiarity with Geographic Information Systems (GIS)</li> </ol> Experience: <ol style="list-style-type: none"> <li>1. Two years of experience in geological/geotechnical assessment</li> <li>2. Experience with collecting and analyzing remote sensing/aerial data, engaging in disaster response, and using GIS and GPS</li> </ol>	Not Specified
<b>PHYSICAL/MEDICAL FITNESS</b>	Arduous	NIMS Guideline for the National Qualification System (NQS) defines physical / medical fitness levels for NIMS positions.
<b>CURRENCY</b>	Functions in this position during an operational incident, planned event, exercise, drill, or simulation at least once every five years	Not Specified
<b>PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS</b>	Not Specified	Not Specified



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## NOTES

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1. Nationally typed resources represent the minimum criteria for the associated component.
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

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1. FEMA, NIMS 508: Geology Field Reconnaissance Team
2. FEMA, National Qualification System (NQS) Position Task Book for Geology Field Reconnaissance Specialist, latest edition adopted
3. FEMA, National Incident Management System (NIMS), October 2017
4. FEMA, NIMS Guideline for the NQS, November 2017
5. FEMA, National Response Framework, October 2019
6. U.S. Geological Survey (USGS) Circular 1242: The Plan to Coordinate NEHRP Post-Earthquake Investigations, latest edition adopted
7. Applied Technology Council (ATC), ATC-20-1: Field Manual: Postearthquake Safety Evaluation of Buildings, latest edition adopted
8. ATC, ATC-45: Field Manual: Safety Evaluation of Buildings after Windstorms and Floods, latest edition adopted