



Resource Typing Definition for the National Qualification System
Emergency Management

GEOGRAPHIC INFORMATION SYSTEMS SPECIALIST

RESOURCE CATEGORY	Emergency Management
RESOURCE KIND	Personnel
OVERALL FUNCTION	The Geographic Information Systems (GIS) Specialist coordinates to prepare incident maps and displays by collecting and interpreting information
COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. This position can be ordered as a single resource 2. Discuss logistics for this position, such as security, lodging, transportation, and meals, prior to deployment 3. The position typically works 12 hours per shift, is self-sustainable for 72 hours, and is deployable up to 14 days 4. Requestor may specify any additional qualifications necessary based on incident complexity and needs

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 GIS Specialist: <ol style="list-style-type: none"> 1. Participates in functional area briefings and after action reports 2. Defines, implements, and maintains a daily archival process 3. Provides written documentation, digital data, and products developed during the incident to the Documentation Unit and others 4. Assists in producing incident products by completing digital analysis 5. Develops, updates, and maintains metadata 6. Coordinates with Situation or Situational Awareness Unit Leader to prepare incident maps and displays by collecting and interpreting information 7. Produces and updates digital maps within established guidelines and time frames using National Incident Management System (NIMS) symbols 	Not Specified
EDUCATION	Not Specified	GIS-related education comes in a variety of formats, including GIS certificates, GIS degrees, and GIS on-the-job training.



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COMPONENT	SINGLE TYPE	NOTES
TRAINING	Completion of the following: <ol style="list-style-type: none"> 1. IS-100: Introduction to the Incident Command System, ICS-100 2. IS-700: National Incident Management System, An Introduction 3. E/L 0190: ARC GIS for Emergency Managers 4. E/L 0313: Basic Hazus Multi-Hazard, or equivalent 5. Training in accordance with Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Materials Awareness 	Identified equivalent trainings should meet or exceed course learning objectives.
EXPERIENCE	Successful completion of the National Qualification System (NQS) Position Task Book (PTB) for the NIMS Geographic Information Systems Specialist, or equivalent Authority Having Jurisdiction (AHJ) documentation	Not Specified
PHYSICAL / MEDICAL FITNESS	Performs duties under moderate circumstances characterized by working consecutive 12-hour days under physical and emotional stress for sustained periods of time	Not Specified
CURRENCY	Functions in this position during an operational incident, exercise, drill, or simulation at least once every three years	Not Specified
PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS	Not Specified	Not Specified



NOTES

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

REFERENCES

1. FEMA, Position Task Book for Geographic Information Systems Specialist
2. FEMA, National Qualification System Guide
3. FEMA, National Incident Management System (NIMS), pending publication
4. FEMA, National Response Framework, June 2016
5. FEMA, Emergency Responder Field Operations Guide (ER-FOG), October 2010
6. National Wildfire Coordinating Group (NWCG), National Incident Management System Wildland Fire Qualification System Guide, PMS 310-1, Physical Fitness Levels, October 2016
7. Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Materials Awareness, latest edition adopted