



Resource Typing Definition for the National Qualification System
Emergency Management

GEOGRAPHIC INFORMATION SYSTEMS SUPERVISOR

RESOURCE CATEGORY	Emergency Management
RESOURCE KIND	Personnel
OVERALL FUNCTION	The Geographic Information Systems (GIS) Supervisor provides oversight for GIS activities of multiple GIS teams during expanding and complex incidents
COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. This position can be ordered as a single resource or in conjunction with a NIMS typed team (GIS Map Support Team) 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 Supervisor: <ol style="list-style-type: none"> 1. Establishes or transitions into a unit or team under the Planning Section 2. Configures team to support operations as necessary 3. Provides oversight for GIS activities of multiple GIS teams during expanding and complex incidents 4. Manages the Type 1 GIS Analyst and coordinates staffing and resources to support mission-specific needs and activities 	Not Specified
EDUCATION	Completion of a formal GIS-related educational or certificate program or possession of Recognition of Prior Learning (RPL) focused on demonstrated knowledge and skills as the Authority Having Jurisdiction (AHJ) determines	GIS-related education comes in a variety of formats, including GIS certificates, GIS degrees, and GIS on-the-job training.



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-200: ICS for Single Resources and Initial Action Incidents 3. ICS-300: Intermediate Incident Command System for Expanding Incidents 4. IS-700: National Incident Management System, An Introduction 5. IS-800: National Response Framework (NRF), An Introduction 6. IS-922: Applications of GIS for Emergency Management 7. E/L 0964: National Incident Management System Incident Command System All-Hazards Situation Unit Leader Course, or equivalent 8. G0191: ICS/EOC Interface 9. 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	Knowledge, Skills, and Abilities: <ol style="list-style-type: none"> 1. Understands and uses common location reference systems, including United States National Grid (USNG), latitude/longitude, and other appropriate location languages in support of disaster operations 2. Helps acquire data for GIS software, including coordinating Memorandums of Understanding (MOU) for event imagery and other local data 3. Acquires and evaluates different map types and data sources to understand limitations and present the most useful information 4. Provides oversight, guidance, and direction for the use of predictive models such as Hazus Multi-Hazards, CBRN (chemical, biological, radiological, and nuclear.), and Wildland Fire Behavior Modeling in producing maps, analysis, and reports for situational awareness and decision-making Experience: <ol style="list-style-type: none"> 1. Successful completion of the National Qualification System (NQS) Position Task Book (PTB) for the National Incident Management System (NIMS) Geographic Information Systems Supervisor, or equivalent AHJ documentation 2. Practical GIS experience 3. Experience in a management position in public safety, emergency management, or a GIS team, including familiarity with GIS industry-standard methods and processes to manage GIS resources and produce GIS products and services 4. Successful experience as a Type 1 GIS Analyst on a deployment, incident, or training exercise, including tabletops with previous experience 	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



COMPONENT	SINGLE TYPE	NOTES
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	<ol style="list-style-type: none">1. Completion of GIS industry-standard certification program as the AHJ determines2. Maintains currency in the use and application of the latest GIS technology and certifications used in the industry	Not Specified



NOTES

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

REFERENCES

1. FEMA, NIMS 508: Geographic Information Systems Map Support Team, pending publication
2. FEMA, NIMS 509: Geographic Information Systems Analyst
3. FEMA, Position Task Book for Geographic Information Systems Supervisor
4. FEMA, National Qualification System Guide
5. FEMA, National Incident Management System (NIMS), pending publication
6. FEMA, National Response Framework, June 2016
7. FEMA, Emergency Responder Field Operations Guide (ER-FOG), October 2010
8. Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Materials Awareness, latest edition adopted
9. National Wildfire Coordinating Group (NWCG), National Incident Management System Wildland Fire Qualification System Guide, PMS 310-1, Physical Fitness Levels, October 2016
10. U.S. Department of Homeland Security, Homeland Security Geospatial Concept of Operations (GeoCONOPS) v. 5.0, June 2013, or latest edition adopted