



# Public Safety GIS Position Qualifications Version 1.0

## GEOGRAPHIC INFORMATION SYSTEMS (GIS) TEAM LEADER

TYPE	TYPE 1	NO TYPE 2
<b>DESCRIPTION</b>	<p>The Type 1 GIS Team Leader is responsible for:</p> <ol style="list-style-type: none"> <li>1. Managing GIS hardware and software resources, to include geospatial data, for an incident across multiple nodes and locations</li> <li>2. Providing coordination, oversight and management as part of a GIS Map Support Team</li> <li>3. Performing duties within a GIS Section or Branch and/or managing GIS analysis.</li> <li>4. Managing and administering data dissemination portals and associated content (web maps, apps and data)</li> </ol>	Not Applicable
<b>CATEGORY</b>	<b>CRITERIA</b>	<b>CRITERIA</b>
<b>EDUCATION</b>	<p>Completion of a formal GIS-related educational or certificate program or Recognition of prior learning focusing on demonstrated knowledge and skills</p>	Not Applicable
<b>NOTES: GIS-related education comes in a variety of formats, including GIS Certificates, GIS Degrees, or GIS On the Job Training</b>		
<b>TRAINING</b>	<p>All training identified for the Type 1 GIS Analyst plus,</p> <ol style="list-style-type: none"> <li>1. ICS-300: Intermediate ICS for Expanding Incidents</li> <li>2. ICS-400: Advanced ICS for Command and General Staff – Complex Incidents</li> <li>3. IS-701: NIMS Multi-Agency Coordination System (MACS) Course</li> <li>4. IS-703: NIMS Resource Management</li> <li>5. E0190: ArcGIS for Emergency Managers</li> </ol> <p>Formal or informal training consistent with GIS industry standard certification or educational programs to include:</p> <ol style="list-style-type: none"> <li>1. GIS Web portal administration</li> <li>2. Creation and configuration of web maps</li> <li>3. Creation and configuration of web applications</li> </ol>	Not Applicable
<b>NOTES: Not Specified</b>		



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<b>EXPERIENCE</b>	<p>Knowledge, Skills, and Abilities identified for the Type 1 GIS Analyst, including:</p> <ol style="list-style-type: none"> <li>4. Ability to apply basic instructional design techniques to develop GIS-specific content for training</li> <li>5. Knowledge of the Homeland Security Exercise Evaluation Program (HSEEP) methodology; ability to develop GIS-specific exercise objectives and related injects</li> <li>6. Ability to identify deployment resource needs and develop a load plan</li> <li>7. Ability to identify staffing needs and develop management procedures for continuous operations</li> <li>8. Ability to identify routine reporting requirements during continuous operations</li> <li>9. Ability to establish information sharing procedures/governance to coordinate activities among project stakeholders</li> <li>33. Ability to identify project requirements and define scope</li> <li>34. Ability to determine project timelines and interdependencies</li> <li>35. Ability to identify, assign and track project resources</li> <li>36. Ability to develop project cost estimates</li> <li>37. Ability to develop and implement budget monitoring/adjustment procedures</li> <li>38. Ability to establish quality assurance/quality control procedures</li> <li>39. Ability to manage human resources, including but not limited to recruiting and retention</li> <li>40. Ability to associate and communicate how project objectives relate to organizational strategies</li> <li>41. Ability to establish business continuity procedures</li> <li>42. Ability to manage geospatial web portals (members, groups and items)</li> <li>43. Ability to create and configure web maps</li> <li>44. Ability to create and configure web applications</li> <li>45. Ability to embed web maps inside of websites</li> <li>46. Ability to govern geospatial portal item details and manage standards for publishing data and service</li> </ol> <p><b>PLUS</b></p> <p>Experience:</p> <ol style="list-style-type: none"> <li>1. Three years of practical GIS experience. Practical experience can include producing maps for real world projects in any sector or discipline.</li> <li>2. Two years of managing people or project teams in public safety or emergency management environment</li> <li>3. Experience supporting multiple field deployments</li> <li>4. Completion of a GIS Team Leader Position Task Book (PTB) or equivalent documentation that validates and verifies (by AHJ) the successful completion of all skills and demonstrates the ability to perform skills</li> </ol>	Not Applicable
<b>NOTES:</b>		



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<b>PHYSICAL/ MEDICAL FITNESS</b>	Ability to perform duties under moderate circumstances characterized by working consecutive 12-14 hour days under physical and emotional stress for sustained periods of time. This position may require work outdoors and in the field in disaster environments.	Not Applicable
	<b>NOTES:</b> Moderate fitness or work capacity criteria should be consistent with the physical fitness levels defined in the National Wildfire Coordinating Group's (NWCG) Fitness and Work Capacity, National Fire Protection Association (NFPA) 1582: Standard on Comprehensive Occupational Medical Program for Fire Departments, or equivalent physical and medical fitness criteria determined by the AHJ.	
<b>CURRENCY</b>	1. Operational incident experience and/or participation in exercises, drills, or simulations within three years from the time approved by the AHJ to serve as the GIS Analyst 2. This position maintains currency for the Type 1 GIS Analyst position	Not Applicable
	<b>NOTES:</b> Not Specified	
<b>PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS</b>	1. Completion of GIS industry standard certification program or equivalent 2. Maintain status in the use and application of the latest GIS technology and certifications used in the industry	Not Applicable
	<b>NOTES:</b> Not Specified	

## ORDERING SPECIFICATIONS OR DESIGNATIONS

- Can be ordered as a single resource
  - Can be ordered in conjunction with a typed team (GIS Map Support Team)
  - Can be ordered in conjunction with a typed unit
1. Logistics for deploying this position (e.g., security, lodging, transportation, meals) should be discussed prior to deployment of this resource.
  2. This position can work up to 12 hours per shift, is self-sustained for 72 hours, and deployable for up to 14 days.

## REFERENCES

1. U.S. Department of Homeland Security, Homeland Security Geospatial Concept of Operations (GeoCONOPS), v. 5.0, June 2013
2. National Wildfire Coordinating Group (NWCG), National Incident Management System Wildland Fire Qualification System Guide, PMS 310-1, Physical Fitness Levels, October 2013
3. NWCG, Task Book for the Position of Geographic Information System Specialist, PMS 311-77, June 2009
4. NFPA 1582: Standard on Comprehensive Occupational Medical Program for Fire Departments, latest edition adopted

## NOTE

None