

TECHNICAL SPECIALIST - UNMANNED AIRCRAFT SYSTEM

RESOURCE CATEGORY	Incident Management
RESOURCE KIND	Personnel
OVERALL FUNCTION	The Technical Specialist-Unmanned Aircraft System (UAS) provides technical support to the UAS Team, including managing data recording equipment and software, managing communications systems and frequencies, and maintaining documentation in the appropriate chain of custody.
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 (Unmanned Aircraft System Team). 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.

COMPONENT	SINGLE TYPE	NOTES
DESCRIPTION	<p>The UAS:</p> <ol style="list-style-type: none"> 1. Ensures that data recording and streaming equipment is operational preflight, during flight, and post-flight to achieve the mission objectives 2. Works with the Air Tactical Group Supervisor to ensure that the UAS operational control frequencies do not conflict with other UAS in the flight area 3. Performs preflight and post-flight safety and security checks of on-board data gathering and streaming equipment 4. Communicates safety, hazards, needs, and concerns relating to data gathering and streaming equipment to the flight observer 5. Maintains the flow of streamed data to the receiver while the aircraft is in flight 6. Ensures that backup recording devices are operational before launch 7. Checks data recorded, creates backup copy, and forwards original to designated operations and planning authorities 8. Documents the chain of custody for information gathered from the aircraft 	Not Specified
EDUCATION	Not Specified	Not Specified
TRAINING	<p>Completion of the following:</p> <ol style="list-style-type: none"> 1. IS-100: Introduction to the Incident Command System, ICS-100 2. IS-200: Basic Incident Command System for Initial Response, ICS-200 3. IS-700: National Incident Management System, An Introduction 4. IS-800: National Response Framework, An Introduction 5. Hazardous materials awareness training, such as: <ol style="list-style-type: none"> a. Training in accordance with the Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Materials Awareness, OR b. IS-5.A: An Introduction to Hazardous Materials, AND IS-3: Radiological Emergency Management 	Not Specified

COMPONENT	SINGLE TYPE	NOTES
EXPERIENCE	<p>Knowledge: Competency with remote sensing technologies such as photogrammetry, live video, lidar, and thermal imaging</p> <p>Experience: Provides Authority Having Jurisdiction (AHJ) with documentation of successful participation in a drill, functional or full-scale exercise, or actual incident within the past two years</p>	The AHJ may accept documentation of equivalent military experience.
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	NIMS Guideline for the National Qualification System (NQS) defines Physical / Medical Fitness levels for NIMS positions
CURRENCY	Functions in this position during an operational incident, planned event, exercise, drill, or simulation at least once every two 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, NIMS 508: Unmanned Aircraft System Team
2. FEMA, NIMS 509: Remote Pilot in Command
3. FEMA, NIMS Guideline for the National Qualification System, November 2017
4. Federal Aviation Administration (FAA) Joint Order (JO) 7200.23: Air Traffic Organization Policy, October 2016
5. Title 14 Code of Federal Regulations (CFR) Part 107: Small Unmanned Aircraft Systems, latest edition adopted
6. Occupational Safety and Health Administration (OSHA) 29 CFR Part 1910.120: Hazardous Materials Awareness, latest edition adopted