

## STRUCTURAL COLLAPSE SEARCH TEAM

<b>DESCRIPTION</b>	The Structural Collapse Search Team conducts search operations in collapsed structures and debris fields resulting from natural or human causes.
<b>RESOURCE CATEGORY</b>	Search and Rescue
<b>RESOURCE KIND</b>	Team
<b>OVERALL FUNCTION</b>	<p>The Structural Collapse Search Team:</p> <ol style="list-style-type: none"> <li>1. Searches for missing individuals and animals in a structural collapse environment</li> <li>2. Performs technical searches using various techniques and technologies, including thermal, optical and audio</li> <li>3. Provides emergency medical care, including basic life support (BLS)</li> </ol>
<b>COMPOSITION AND ORDERING SPECIFICATIONS</b>	<ol style="list-style-type: none"> <li>1. Discuss logistics for deploying this team, such as working conditions, length of deployment, security, lodging, transportation and meals, prior to deployment.</li> <li>2. Requestor orders canine search resources separately to supplement this team.</li> <li>3. Requestor specifies certain needs and issues prior to deployment, including: <ol style="list-style-type: none"> <li>a. Mission location and operational environments, such as size and type of structure(s)</li> <li>b. Additional specialized personnel necessary, such as medical staff, animal search specialists, logistics specialists, advisors, helicopter support staff and heavy-equipment operators</li> <li>c. Additional transportation-related needs, such as specific vehicles, trailers, equipment, supplies, fuel and so on</li> <li>d. Additional heavy equipment necessary, such as cranes, aerial lifts (booms) and industrial style forklifts</li> <li>e. Additional specialty equipment, such as hardware, software, ropes, victim evacuation devices and Personal Protective Equipment (PPE)</li> </ol> </li> <li>4. This team relies on the Structural Collapse Rescue Team for all found people and animal rescue.</li> <li>5. Operations in search and rescue (SAR) environments may be immediately dangerous to life and health (IDLH), per ASTM International (ASTM) F2890: Standard Guide for Hazard Awareness for Search and Rescue Personnel; requestor should consider the need for additional capabilities or endorsements.</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	TYPE 1	TYPE 2	TYPE 3	NOTES
<b>MINIMUM PERSONNEL PER TEAM</b>	4	4	2	Not Specified
<b>MANAGEMENT AND OVERSIGHT PERSONNEL PER TEAM</b>	Same as Type 2	Same as Type 3	1 - National Incident Management System (NIMS) Structural Collapse Search Team Leader	Not Specified
<b>SUPPORT PERSONNEL PER TEAM</b>	Same as Type 2	Same as Type 3, PLUS: 2 - NIMS Structural Collapse Search Technician	1 - NIMS Structural Collapse Search Technician	Not Specified

## Resource Typing Definition for Mass Search and Rescue Operations Search and Rescue

COMPONENT	TYPE 1	TYPE 2	TYPE 3	NOTES
<b>CAPABILITIES PER TEAM</b>	Same as Type 2, PLUS: Conducts search operations in heavy construction, in keeping with United Nations (UN) International Search and Rescue Advisory Group (INSARAG) urban search and rescue (US&R) guidance	Same as Type 3, PLUS: Conducts search operations in medium construction, in keeping with UN INSARAG US&R guidance	1. Conducts search operations in light construction, in keeping with UN INSARAG US&R guidance 2. Performs thermal, optical and audio search operations 3. Is capable of working in confined spaces, including permit-required, non-cave and non-mine environments	Not Specified
<b>RESCUE EQUIPMENT PER TEAM</b>	Same as Type 2	Same as Type 3, PLUS: 1. Listening devices 2. Search camera 3. Core drills	1. Hand tool package 2. Technical level rope rescue package 3. Thermal imaging camera	1. Hand tools include shovels, electric saws and bolt cutters. 2. Requestor orders additional heavy equipment, such as cranes, aerial lifts (booms) and industrial style forklifts, separately, if necessary.
<b>PERSONAL PROTECTIVE EQUIPMENT (PPE) PER TEAM MEMBER</b>	Same as Type 2	Same as Type 3	PPE is mission specific and varies by work environment; it may include: 1. Hard hat 2. Reflective vest 3. Gloves 4. Safety glasses 5. Protective clothing 6. Protective footwear 7. Dust masks or a respirator with extra filters	Not Specified
<b>COMMUNICATIONS EQUIPMENT PER TEAM</b>	Same as Type 2	Same as Type 3	1. Two-way handheld radio 2. Mobile phone	Not Specified

## NOTES

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1. Nationally typed resources represent the minimum criteria for the associated component and capability.
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: Structural Collapse Rescue Team Leader
2. FEMA, NIMS 509: Structural Collapse Search Team Leader
3. FEMA, NIMS 509: Structural Collapse Search Technician
4. FEMA, National Incident Management System (NIMS), October 2017
5. FEMA, National Response Framework, October 2019
6. ASTM International (ASTM) F2890: Standard Guide for Hazard Awareness for Search and Rescue Personnel, latest edition adopted
7. United Nations (UN), Office for the Coordination of Humanitarian Affairs (OCHA), International Search and Rescue Advisory Group (INSARAG) Guidelines, latest edition adopted