

Damage Assessment Professionals: Qualifications Matrix (Domestic)

	1st Responder		2nd Responder (Damage Assessment)						Non-Affiliate
	Federal (FEMA) / State (EMAC) Resource				State (EMAC) / Local (Mutual Aid) Resource			ATC Damage Assessor	
	FEMA Structures Specialist (StS)		FEMA Structure Condition Evaluator (SCE)			ICC Disaster Response (DR) Inspector ⁽⁶⁾	CalOES Safety Assessment Program (SAP) Evaluator ⁽⁷⁾⁽⁸⁾		Community Emergency Response Team (CERT) ⁽⁹⁾
	StS 2 ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾	StS 1 ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾	SCE - Type 1 ⁽⁵⁾	SCE - Type 2 ⁽⁵⁾	SCE - Type 3 ⁽⁵⁾				
PROFESSIONAL LICENSES AND CERTIFICATIONS									
Licensed as a Professional Engineer (PE) , Structural Engineer (SE) or Registered Architect (RA)	✓	✓	✓				✓	✓	
Certified as a Building Official , Fire Inspector I , Residential Inspector , Commercial Inspector , Fire Plans Examiner or Plans Examiner with certification in either building, plumbing, mechanical, or electrical				✓ (Only 1 Required)			✓ (Only 1 Required)	✓ (Only 1 Required - excluding Fire Plans Examiner and Code Enforcement)	
Certified as Code Enforcement or a Building Inspector (School - DGS/DSA; Hospital - OSHPD; Construction Inspector - ACIA)									
Licensed as a Geotechnical Engineer (GE) Engineering Geologist (EG)									
ICC Disaster Response (DR) Inspector certification						✓			
California OES Safety Assessment Program (SAP) Evaluator certification							✓		
EXPERIENCE									
5 years' experience in structure design and analysis to include evaluation of existing structures, field investigation and construction observation experience	✓	✓	✓						
2 years' experience in structure design and analysis to include evaluation of existing structures, field investigation and construction observation experience				✓ (Only 1 Required)					
2 years' experience as a certified code inspection and/or enforcement professional									
ORGANIZATION AFFILIATIONS									
FEMA USAR Task Force or State USAR (SUSAR) Task Force	✓	✓							
Engineers: NCSEA						✓ (Only 1 Required)	✓ (Only 1 Required)		
Engineers: ASCE									
Architects: AIA									
Code Officials: ICC									
California DGS / DSA / ACIA									
State or Community CERT Team								✓	
TRAINING / EDUCATION									
First Aid									
America Heart Association Cardiopulmonary Resuscitation (CPR)	✓	✓	✓	✓			(Recommended)	(Recommended)	✓
Advanced First Aid									✓
FEMA Classes									
DHS/FEMA USAR Orientation Course	✓ (FEMA teams)	✓ (FEMA teams)							
Incident Command System (ICS) Classes									
IS-100: Introduction to Incident Command System	✓	✓	✓	✓	✓		(Recommended)		✓
IS-200: ICS for Single Resources and Initial Action Incidents	✓	✓	✓	✓	✓		(Recommended)		✓
National Incident Management System (NIMS) Classes									
IS-700: National Incident Management System Introduction	✓	✓	✓	✓	✓		(Recommended)		✓
IS-800: National Response Framework Introduction	✓	✓	✓	✓	✓		(Recommended)		✓

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Emergency Support Functions (ESF) Classes									
IS-803: ESF #3 – Public Works and Engineering			✓	✓	✓				
IS-809: ESF #9 – Search and Rescue			✓	✓	✓				
ATC Classes									
ATC-20 Seismic Damage Assessment class	✓	✓							✓
ATC-45 Wind & Flood Damage Assessment class	✓	✓							✓
Concepts of operations training									
IS-317: Introduction to Community Emergency Response Teams								(Recommended)	
Community Emergency Response Team (CERT) Basic Training								✓	
Advanced: ATC-20 and ATC-45 classes with additional concepts of operations training									
ICC Disaster Response (DR) Inspector class			✓	✓	✓	✓			
California OES Certified Safety Assessment Program (SAP) Evaluator class			(Only 1 Required)	(Only 1 Required)	(Only 1 Required)		✓		
Specialty: Structure Condition Evaluator									
Building Safety Assessment Engineer			✓	✓					
Building Safety Assessment Leader			✓						
Specialty: Structures Specialist									
FEMA National US&R Response System Planning Team Training course	(Recommended)	(Recommended)							
FEMA National US&R Response System GPS course (Awareness)	✓	✓							
FEMA National US&R Response System GPS course (Operations)	(Recommended)								
DHS/FEMA USACE Structures Specialist Training (StS-1)	✓	✓							
DHS/FEMA USACE Structures Specialist Training (StS-2)	✓								
Respiratory Protection Training and Fit Test (29CFR 1910.134)	✓	✓							
Duties of the Entrant (29 CFR 1910.146)	✓	(Recommended)							
DOJ Emergency Response to Terrorism (Basic)	✓								
Specialty: Technical Rescue (NFPA 1670)									
NFPA 1670 Awareness (Structural Collapse, Rope Rescue, Confined Space, Water Rescue, Trench and HAZMAT)	✓	✓							
Structural Collapse Rescue (Operations)	✓	✓							
Structural Collapse Rescue (Technician)	(Recommended)								
Rope Rescue (Operations)	✓	(Recommended)							
Confined Space Rescue (Operations)	✓	(Recommended)							
Trench Rescue (Operations)	✓	(Recommended)							
Hazardous Materials (Operations)	✓	(Recommended)							
WMD (Awareness)	✓	✓							
WMD (Enhanced Operations)	✓								

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PHYSICAL / MEDICAL FITNESS									
Must maintain current inoculations for Diphtheria/Tetanus (or Tetanus only if there is a contra-indication to Diphtheria), Hepatitis A & B, Measles/Mumps/Rubella (if born after 1957), and Polio	✓	✓	✓	✓					
Must be aware of the signs, symptoms and corrective measures of critical incident stress syndrome	✓	✓	✓						
Must adhere to safe working practices and procedures	✓	✓	✓	✓	✓				
Must be able to function safely at heights and on or around rubble.	✓								
Ability to perform duties under arduous circumstances characterized by working consecutive 12-14 hour days under physical and emotional stress for sustained periods of time	✓	✓	✓	✓	✓				
EXPERIENCE KNOWLEDGE, SKILLS, and ABILITIES (Additional FEMA Requirements)									
Must be available on short notice to mobilize within six hours of request and be self-sufficient for at least 72 hours for a response assignment of up to 10 days in austere environments.	✓	✓	✓	✓	✓	✓	✓		
Ability to operate in an urban disaster environment	✓	✓	✓	✓		✓	✓		
Ability to use GPS, including Computer Interface (downloading/uploading maps)	✓	✓	✓	✓	✓				
Knowledge of the methodology and practices associated with the evaluation of existing structures, field investigation or construction observation	✓	✓	✓	✓	✓	✓	✓		
Comprehensive knowledge of building materials, to include: Current and past design and construction techniques for wood, masonry, concrete, and steel; and knowledge of the behavior of structures under adverse loading conditions	✓	✓	✓	✓		✓	✓		
Ability to identify features that allow for the determination of the condition of structures subjected to adverse loading from natural and man-made disasters	✓	✓	✓	✓		✓	✓		
Ability to identify features that allow for the determination of the condition of structures subjected to adverse loading from natural and man-made disasters to facilitate the classification (placarding) of structures in compliance with ATC-20 and ATC-45 program requirements			✓	✓		✓	✓		
Ability to identify vertical load and lateral force resisting framing systems and identify the critical elements within those systems	✓	✓	✓	✓		✓	✓		
Ability to identify failure indications of building materials	✓	✓	✓	✓		✓	✓		
Ability to process documentation and coordinate personnel and incident documentation			✓	✓	✓				
Ability to provide technical and administrative support			✓	✓	✓				
Knowledge of the organizational methodology of the National Council of Structural Engineers (NCSEA) Structural Engineers Emergency Response Plan (SEER Plan)			✓	✓	✓				
Working knowledge of FEMA's US&R Response System, organizational structure, operating procedures, safety practices, terminology and communications protocols	✓	✓	✓	✓					
Ability to improvise and function for long hours under adverse conditions	✓	✓	✓						

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Knowledge of how Rescue Specialists are trained to perform Breaking and Breaching, Lifting and Moving, and Shoring Construction	✓	✓							
Knowledge of the appropriate types of structural hazard reduction methods for various types of collapsed structures	✓	✓							
Knowledge of victim access methods, and of safe rescue practices and procedures	✓	✓							
Capable of setting up and using various monitoring and other tools available in a US&R equipment Cache	✓	✓							
Able to identify building features that could provide entry or access to victims such as ducts, shafts, etc.	✓	✓							
Able to recommend practical solutions for USAR operations in compromised structures	✓	✓							
Must understand the needs of and provide support to their counterparts within the taskforce for specific operations, techniques and application of tools and equipment	✓	✓							

(1) Based on: FEMA NIMS - USAR StS Typing Requirements (2011-03 Final Draft)
 (2) Based on: FEMA - USAR StS Position Description (2011-06 Final)
 (3) Based on: FEMA - USAR StS Position Description (2013-02 Final)
 (4) Based on: SUSAR - USAR StS Position Description (FL USAR Ver.3 Final)
 (5) Based on: FEMA NIMS - SCE Typing Requirements (2013-06 Final Draft)
 (6) Based on: ICC - Disaster Response (DR) Inspector 2015 Requirements
 (7) Based on: CalOES - Post-Disaster Safety Assessment Program Guideline (2015-03 Final)
 (8) Based on: CalOES - Structural Assessment Program (SAP) Approved Licenses & Certifications (2013-07 Final)
 (9) Based on: FEMA - CERT Basic Training Participant Manual (2011-01 Final)