Education & Training Framework (April 2025)

Overview

This document provides a framework for ShakeAlert® Technical Partners to develop an Education & Training (E&T) Plan, which is a requirement for a Pilot Agreement to License to Operate (LtO) Technical Partner conversion. Components of an E&T Plan are described herein.

To maximize the impact of ShakeAlert-powered products and/or services, U.S. Geological Survey-licensed LtO Technical Partners (LtOs) are required to educate endusers on topics such as how the ShakeAlert System works, what protective actions to take, and what they can expect from an LtO's product and/or service. All LtOs must have an E&T Plan approved by the U.S. Geological Survey (USGS) and in place before Pilot-to-LtO conversion. Along with the Technical Performance Report, the E&T Plan will be provided as a written report and submitted to the USGS before the Pilot-to-LtO Performance Review with USGS representatives.

Per the terms of the ShakeAlert License Agreement, the proposed E&T Plan must be implemented within six months after LtO conversion (i.e., full execution of the Pilot License Agreement [PLA] to LtO Amendment). If the licensee needs to change any aspect of the E&T Plan after LtO conversion, the USGS must be consulted, as changes could require an LtO Amendment. Failure to implement the E&T Plan on schedule could result in license suspension until the E&T Plan is implemented.

Education and training will always be a work in progress. The ShakeAlert Communication, Education, Outreach, and Technical Engagement (CEO&TE) team is ready to help. Contact your assigned Technical Engagement Regional Coordinator (TERC) to assist you as you develop your E&T Plan.

Definitions

TECHNICAL PARTNERS

ShakeAlert Technical Partners execute a Pilot License Agreement (PLA) with the USGS to research, develop, and internally test innovative ways to use earthquake data in ShakeAlert Messages for the delivery of ShakeAlert-powered products and/or services to the public and automated systems. The goal of the PLA is conversion to a License to Operate (LtO) status through successful completion of a ShakeAlert Performance Review with the USGS.

Licenseto Operate (LtO) Technical
Partners have met the terms of the
Statement of Work (SOW) of a welldefined use case in their ShakeAlert
License Agreement via a USGSadministered Performance Review.
Ultimately, LtO Technical Partners are
approved by the USGS to distribute or
sell their ShakeAlert-powered product(s)
and/or service(s).

END-USERS

End-users receive ShakeAlert-powered products and/or services from LtO Technical Partners. End-users include people who receive these products and/or services directly (e.g., to their cell phones), as well as organizations that work with an LtO Technical Partner to implement automated "machineto-machine" actions (e.g., slowing or stopping a train or delivery of an alert through a public address system).

• Components of an Education & Training Plan

Use this checklist to ensure your Education & Training (E&T) Plan includes these components. This checklist can also serve as the structure/outline for your E&T Plan.

I. Background on Your Company and Your ShakeAlert-powered Product(s) and/or Service(s)
☐ Briefly describe your company or organization.
□ Describe what ShakeAlert-powered product(s) and/or service(s) you will offer to end-users and how they will be delivered. (Examples: VOIP, sirens, message boards, voice-activated fire alarm box) As applicable, describe any automated machine-to-machine actions. (Examples: close/open valves, start generator, slow machinery)
II. Education & Training Audiences
□ Define your learner audiences, including end-users and/or customers. Who needs to know about your ShakeAlert-powered product(s) and/or service(s)? (Examples: in-house technical staff, faculty and students, train operators and passengers, hospital administrators and patients, customers of retail products)
☐ For each audience listed, briefly summarize their needs for information. (Examples: technical details, protective actions)
III. Description of Education & Training Materials
The following components should be included in your E&T materials.
E&T Materials Overview
□ For each audience, provide a description and/or examples of the E&T materials you intend to deliver to end-users. (Examples: technical training materials, end-user education, packaging, instructional materials, marketing materials, etc.)
□ Identify key messages you will use with your audiences for each ShakeAlert-powered product and/ or service. (Available resources include <u>ShakeAlert® Core Messaging [Talking Points]</u> , <u>ShakeAlert</u> <u>Messaging Toolkit FAQs</u>)
Recommended Responses to ShakeAlert-powered Alerts
□ As applicable, describe the protective actions you recommend for end-users who will receive alerts. (Available resources include <u>Drop, Cover, and Hold On graphic</u> , <u>ShakeAlert Protective Actions</u> <u>Recommendations</u>)
☐ As applicable, describe the recommended responses/actions to any automated actions initiated for each ShakeAlert-powered product and/or service.

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III. Description of Education & Training Materials (continued)

Product and/or Service Details Included in E&T Materials			
☐ As applicable, provide an example or detailed description of the content information delivered to end-users. (Examples: audio alert tones, voice- or text-based messaging [e.g., "Earthquake! Earthquake! Expect shaking. Drop, Cover, and Hold On. Protect yourself now."])			
□ Provide information about any limitations of each product and/or service. Communicating expectations to end-users is indispensable and a matter of safety. (Examples: geographical areas o availability, allowable automated actions, limitations of earthquake early warning in general)	ıf		
□ Identify magnitude and intensity threshold criteria for delivering alerts or initiating automated actions. (Examples: alerting end-users for earthquakes estimated at M4+ in areas shaking is estimated at MMI 3+, starting backup generators if M5.5+ and MMI 4+)			
□ Describe how you plan to deliver Post-ShakeAlert Message Follow-up Messages to end-users. If you do not plan to deliver Follow-up Messages, explain why not. (Available resources include FAQ: ShakeAlert Warning Times, Follow-up Message Guidance [available only to Technical Partners with a GitLab account])	S		
Availability of Resources to End-Users			
☐ Are your E&T materials available in other languages? Please list those languages (Available resources include ShakeAlert Translated Resources)			
☐ Describe any considerations for your product(s) and/or service(s) to be available to a broad range of end-users. (Available resources include ShakeAlert Messaging Toolkits and other content available on ShakeAlert.org)			
☐ Describe how you provide E&T to a broad range of audiences.			
IV. Delivering Education & Training			
□ Describe how your ShakeAlert E&T will be delivered to end-users. Include your plans for E&T for each audience identified in Section 2. (Examples: website, video, slides, packaging, fact sheets, train-the-trainer content)			
☐ If applicable, include instructions on how to operate the product(s) and/or service(s) or refer to an instruction manual.			

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☐ If applicable, describe who will be responsible for E&T of end-users. The ShakeAlert CEO&TE team

will not be responsible for training end-users, but may offer resources and assistance.

V.	V. Continuing Engagement		
	As the technical capabilities of the ShakeAlert System evolve, so too must E&T materials and resources. Describe how you will update E&T materials and resources on your website, social media, packaging, etc. (Available resources include ShakeAlert Messaging Toolkits and other content available on ShakeAlert.org)		
	Please list the social media channels you will use for E&T purposes and provide your handle(s).		
	(Optional) Encourage end-users to follow @USGS_ShakeAlert on X and visit <u>usgs.gov/ShakeAlert</u> . (Available resources include <u>ShakeAlert Messaging Toolkits</u> and other content available on		

Describe your plans to notify end-users if your product(s) and/or service(s) becomes unavailable (e.g., service interruption or failure, etc.) or becomes unsupported at some point in the future.

ShakeAlert.org). ShakeAlert is exploring a presence on other/additional social media platforms.

VI. Measuring Success (Optional)

Describe how you will measure the success of your E&T materials and resources. Describe how will you make improvements to your materials and resources based on interpretation of your results.

VII. Marketing Materials (Optional)

☐ If applicable, provide examples of marketing materials that relate to each ShakeAlert-powered product and/or service you offer.

• Submit Your E&T Plan

- ☐ Send your E&T Plan to your Technical Engagement Regional Coordinator for review. If needed, schedule a meeting to discuss feedback. Revise your E&T Plan based on feedback from them.
- ☐ Prior to your LtO Performance Review, submit your E&T Plan to the USGS for review. You may submit the Technical Performance Report as well, but these two documents are not required to be submitted at the same time.
- ☐ The USGS might provide further feedback and request revisions to your E&T Plan. If needed, meet with the USGS to discuss revisions; otherwise, submit the revised E&T Plan to the USGS.
- ☐ If the Technical Performance Report has already been approved by the USGS, schedule an LtO Performance Review.

• Contact Us

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Technical Engagement Regional Coordinators (by region)

shakealert.org/technical-contact



