**INTERNATIONAL TSUNAMI INFORMATION CENTER**

**LEARNING ACTIVITY: TSUNAMI EVENT CHRONOLOGY**

During the occurrence and unfolding of a local tsunami event, reaction time is of the essence. Put the following activities in order of chronological occurrence from 1 to XX for a regional tsunami scenario. Some activities may occur nearly simultaneously. Assume power and communications are still operable after the strong earthquake.

*Each major activity undertaken by government should be described by an SOP.*

\_\_\_\_ Drop, Cover, and Hold (Protect yourself from earthquake shaking damage)

\_\_\_\_ Earthquake is detected by a seismic station

\_\_\_\_ Centroid Moment Tensor (Earthquake Mechanism) calculated (PTWC, USGS, Local/Regional Seismic Network)

\_\_\_\_ Expected Tsunami Wave Height estimated using actual earthquake mechanism (PTWC)

\_\_\_\_ National Press Conference

\_\_\_\_ Mwp calculated (PTWC, NTWC or Local/Regional Seismic Network)

\_\_\_\_ PTWC issues initial threat message

\_\_\_\_ Search and rescue operations begin

\_\_\_\_ National Tsunami Warning Center (NTWC) cancels Tsunami Warning

\_\_\_\_ Deep-ocean instrument pressure sensor shows 10 cm signal

\_\_\_\_ Coastal sea level sensor(s) show 5 m zero to peak

\_\_\_\_ Expected Tsunami Arrival Times calculated (PTWC or NTWC)

\_\_\_\_ Strong earthquake is felt

\_\_\_\_ National DMO or Authority issues Evacuation

\_\_\_\_ Telephones at National TWFP/NTWC/DMO start ringing

\_\_\_\_ All-Clear issued allowing Public to return to tsunami evacuation zone

\_\_\_\_ Evacuation of coastal areas

\_\_\_\_ NTWC/TWFP/DMO issues Tsunami Warning

\_\_\_\_ Public moves quickly to higher ground (self-evacuates)

\_\_\_\_ Media disseminate Tsunami Warning Broadcast

\_\_\_\_ Sirens sounded

\_\_\_\_ PTWC issues Enhanced Graphical Products

\_\_\_\_ Road clearing/debris removal begins

\_\_\_\_ Local DMO or Authority issues Evacuation Order