



How to become Tsunami Ready?

4.2 Available Tools and Support Training to achieve indicators

Dr. Laura Kong International Tsunami Information Centre (ITIC)

Training support for Tsunami Ready



- What is Tsunami Ready? How to get Tsunami Ready? Modality:
 - This training in-person
 - Ocean Teacher Global Academy (online, hybrid) programme officials, community, facilitation
- Achieving Indicators

Modality: OTGA (pass test for certificate), in-person **Topics:**

- Tsunami Awareness 4-8 hrs, req for later course
- TWC, TER SOP (IOC MG 76) 1 week
- TEMPP (Inundation, Evacuation, Response Plan, Exercise) (IOC MG 82) 4 modules (1 week each)
- Tsunami Early Warning System 2 week

3 Course breakdown

		Course 1 Introduction to Tsunami Ready and the Indicators	Course 2 Implementing Tsunami Ready	Course 3 Facilitating Tsunami Ready
Types of modules	Module 1 Tsunami Ready for Decision Makers (Gov Officials, NDMO, DDMO, NTWC)	4 x lectures: # hours Training program (Incl. Quiz)		
	Module 2 Tsunami Ready for Community (Community Leader, Community DRM, NGO, DDMO)	4 x lectures: # hours Training program (Incl. Quiz)	2 x lectures: # hours Training program (Incl. Quiz)	
3 T	Module 3 Tsunami Ready for Facilitators (Community DRM, NGOs, Students, Youth groups, DDMO)	4 x lectures: # hours Training program (Incl. Quiz)	2 x lectures: # hours Training program (Incl. Quiz)	4 x lectures: # hours Training program (Incl. Quiz)



Module 1 Tsunami Ready for Decision Makers

Training for Government Officials i.e. from National or Local Disaster Management Offices, National Tsunami Warning Centres, Focal Points, and Donors

unesco Intergovernmental Oceanographic Commission

- 1 Courses
- 4 Lectures (Lecture 1 4)
- Approximately 4 x 45 minutes

Module 2 Tsunami Ready for Community Training for Community leaders, Non-Governmental Organizations (NGOs), Civil Society Organizations (CSOs), Academics and Scientists, Community members, Private, Business, Tourisms sectors, etc.

- 2 Courses (Course 1 2)
- 6 Lectures (Lecture 1 6)
- Approximately 6 x 45 minutes

Module 3
Tsunami Ready
for Facilitators

Training for Disaster Risk Reduction Facilitators for Disaster risk reduction workers and volunteers who are interested in assisting the community in capacity building for tsunami preparedness, etc.

- 3 Courses (Course 1 3)
- 10 Lectures (Lecture 1 10)
- Approximately 11 meetings x 45 minutes



Course 1
Introduction to
Tsunami Ready

Lecture 1: What is Tsunami Ready and what are the benefits to the Community?

Lecture 2: What is the process for implementing Tsunami Ready?

Lecture 3: Overview of the Tsunami Ready Indicators

Lecture 4: How do the indicators relate to each other and the community?

Course 2 Implementing Tsunami Ready

Lecture 5: How does a community start to implement Tsunami Ready?

Lecture 6: Who are the stakeholders and technical organisations involved?

Course 3
Facilitating
Tsunami Ready

Lecture 7 : How to achieve the indicators – ASSESSMENT

Lecture 8 a&b : How to achieve the indicators – PREPAREDNESS

Lecture 9 : How to achieve the indicators - RESPONSE

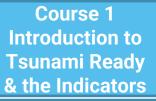
Lecture 10 : Engaging the community in a participatory approach

Tsunami Ready Courses (available in 2023/2024)



3 Course breakdown

		Introduction to Tsunami Ready and the Indicators	Implementing Tsunami Ready	Facilitating Tsunami Ready		
3 Types of modules	Tsunami Ready for Officials and Programme Implementors	4 x lectures 4 x 45 minutes				
	Tsunami Ready for Community	4 x lectures 4 x 45 minutes	2 x lectures 2 x 45 minutes			
	Tsunami Ready for Facilitators	4 x lectures 4 x 45 minutes	2 x lectures 2 x 45 minutes	4 x lectures 4 x 60 minutes		



Course 2 Implementing Tsunami Ready

Course 3
Facilitating
Tsunami Ready

- What is Tsunami Ready
- Why is it important
- What is the benefit of implementing TR
- What are the indicators
- Why are these indicators
- What do community do to start to implement TR
- Who are the stakeholder and the technical organization
- How to approach the organizations
- What does each of these indicator means and the relation of each indicators
- How to work on each of the Indicators



Module 1
Tsunami Ready for
Officials and
Programme
Implementors
(1 Course)

Module 2 Tsunami Ready for Community (2 Courses)

Module 3
Tsunami Ready for
Facilitators
(3 Courses)

The training is targeted for Government Officials (i.e. from National or Local Disaster Management Offices, National Tsunami Warning Centres, Gov Institutions) and Programme / Project planner and implementor (Donors, Funding agencies), etc.

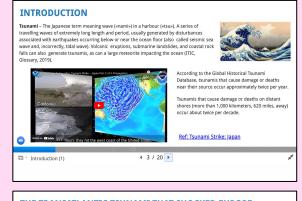
The training is targeted for Community leaders, Non-Governmental Organizations (NGOs), Civil Society Organizations (CSOs), Academics and Scientists, Community members, Private, Business, etc.

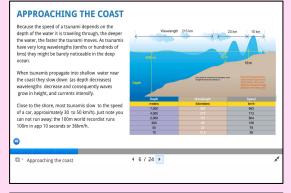
The training is targeted for Disaster Risk Reduction Facilitators for Disaster risk reduction workers and volunteers who are interested in assisting the community in capacity building for tsunami preparedness, etc.

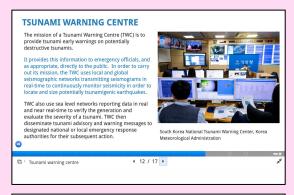
Tsunami Awareness – 3 Modules

- 1. Tsunami Basics 1, 2
- 2. Tsunami Warning Systems 1, 2
- 3. Tsunami Preparedness 1, 2





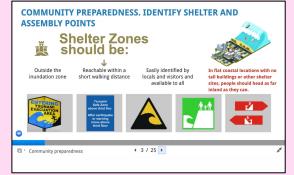














ITIC Training - TEMPP

- □ Tsunami Evacuation Maps, Plans, and Procedures (TEMPP) - IOC MG **82** Preparing for Community Tsunami Evacuations: from inundation to evacuation maps, response plans and
- Manual (English, Spanish)

exercises (2020)

- Supplement 1 (Detail Module Explanations, Guidance) (English)
- **Specialized Documents**

http://itic.ioc-

unesco.org/index.php?option=com_conten t&view=category&layout=blog&id=2166<







Preparing for Community Tsunami Evacuations

From Inundation to Evacuation Maps, Response Plans, and Exercises ... communities knowing what to do and where to go

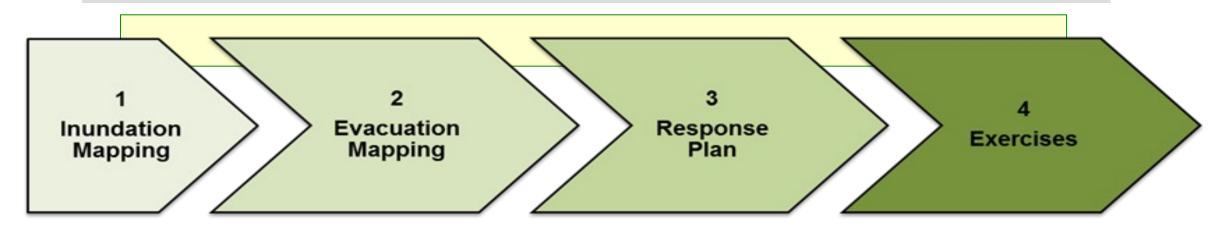








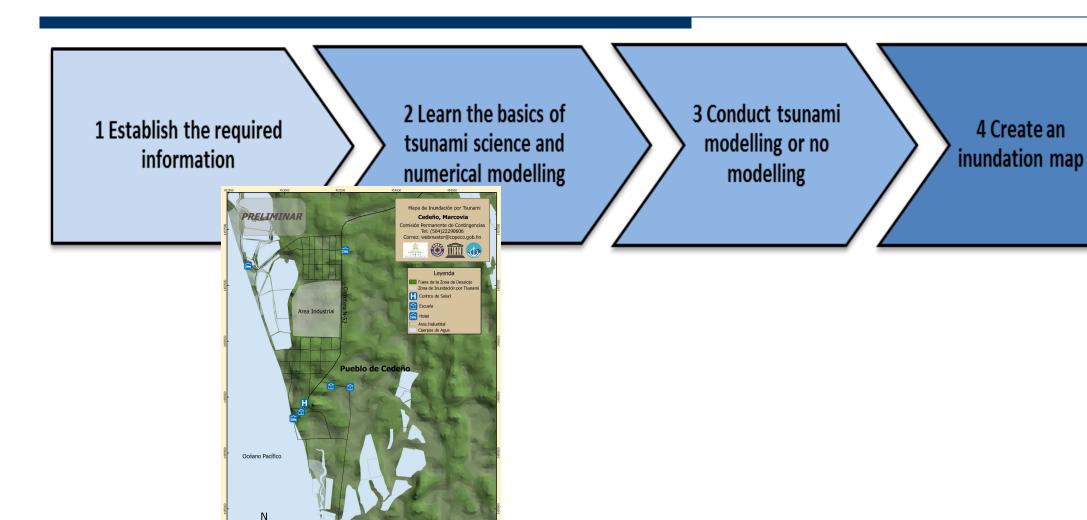
IOC Manual and Guide 82 (2019) - TEMPP PREPARING FOR COMMUNITY TSUNAMI EVACUATIONS: FROM INUNDATION TO EVACUATION MAP, RESPONSE PLANS, AND EXERCISES



4 Foundation Blocks

- Key element of tsunami response involves evacuation, including self-evacuation of exposed people & key assets to safer areas
- Effective and successful evacuations require proper planning by relevant authorities.

Module 1 — Inundation Mapping



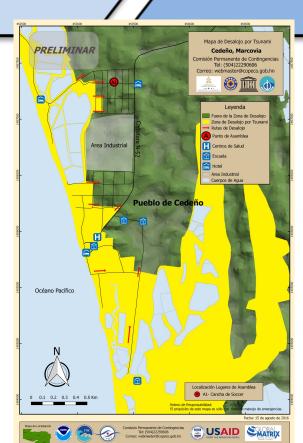
Inundation/flooding map developed for Cedeño, Honduras.

Module 2 — Evacuation Mapping

1 Establish the required information

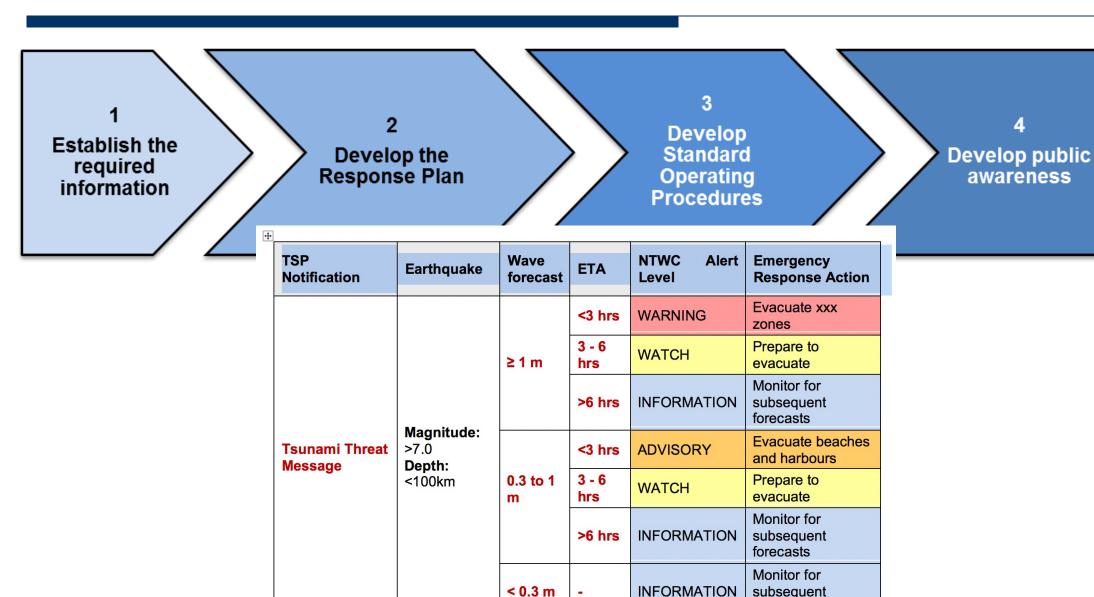
2 Learn the basics of tsunami science and numerical modelling 3 Conduct tsunami modelling or no modelling

4 Create an inundation map



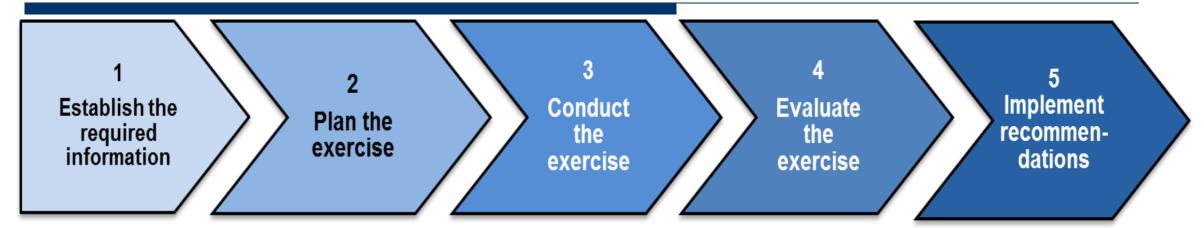
Evacuation map developed for Cedeño, Honduras.

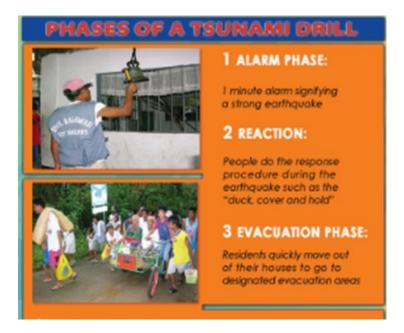
Module 3 – Tsunami Response Planning



forecasts

Module 4 – Evacuation Exercising







7 POST-DRILL EVALUATION:

Assessing the conduct of drill is important for improving future

activities

IOC MG 82 – Topics, Templates, etc

1. HAZARD ASSESSMENT – INUNDATION MODELING

- Numerical Models in Hazard Assessment
- ComMIT tool (MOST model) inundation mapping for evacuation
- Seismic Worst-Case Scenarios for Tsunami Hazard Assessment (no credible sources)
- Establishing Tsunami Inundation for areas not-modeled or low-hazard (no history, low population, poor DEM)
- Tsu Coastal Assessment Tool (TsuCAT) exercise scenario, PTWC msgs

2. COMMUNITY - EVAC MAP, RESPONSE, EXERCISES

- Best Practice Country Examples Chile, Indonesia, Japan, New Zealand, Philippines, USA
- How to Create Evacuation Maps (templates)
- How to Create Community Tsunami Response Plans (templates)
- How to Create Community Tsunami Exercises (templates)

ITIC Training – SOPs

□ Tsunami Warning Center and Tsunami Emergency Response Standard Operating Procedures (TWC TER SOPs) – IOC MG 76 Plans and Procedures for Tsunami Warning and Emergency Management, Guidance for countries in strengthening tsunami warning and emergency response through the development of Plans and Standard Operating Procedures for their warning and emergency management authorities (2017)

■ Manual (English)

http://itic.iocunesco.org/index.php?option=com_content&view=category&layout=blog&id=21 66&Itemid=2640









THANK YOU Vinaka Vaka Levu

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