10. Module on ToT programme on Disaster Management

Aim of the Course:

The course aims at developing skills and capacity of the elected members/officials working as disaster management teams to effectively manage different phases of disasters in district.

Methodology

The training uses following methods in order to ensure maximum level of transfer of learning;

- Presentations, Lessons, Case Studies and Demonstrations
- Table Top Exercises and games
- Group Activities and Group Exercises
- Role Play Sessions

Objectives

Participants will be able to;

- Demonstrate the trainer skills for DM training
- Play different roles as Disaster manager at different phases of disaster
- Do HRVC analysis and disaster action planning
- Practice the Standard Operating Procedures during mock exercise
- Develop scenario and conduct TTX for a simulated disaster
- Do individual and group assignments

Target Group

Officers from the Education department

Resource Persons

Trainers are drawn from KSNDMC, ISRO/KARSAC, NIMHANS, Bomb Squad, Fires Services, Private Sector, CDM, ATI Mysore and other agencies

Expected Outcome

Participants will be able to use the skills to work as Disaster manager and as a Trainer in disaster management

Validation

Apart from daily assessment, the course will be validated by using immediate reaction questionnaires and oral feedback by the participants at the end of the course.

Training Module

Day I	Sessions I and II	
Topic	Introductory Activity	
Contents	 Introduction of Course Team and Faculty Introductory Game Expectations of participants Expectations of trainers 	
Session Objective	Participants will be able to;	
	 Share experiences in DM List expectations from the course Introduce themselves Set ground rules for the course 	
Expected Outcome	 Listing of Expectations from the course Setting Ground Rules for Trainees and Trainers Limitations and scope of the training 	
Method	Introductory game	
	Eliciting responses and Eliciting reactions	
Process	Resource persons to introduce themselves, welcome the participants warmly. Introductory games: Participants to pair up and talk to each other - about their work, their families, their interests, their hobbies, etc. Participants will then introduce their partners in the plenary, so that all other participants get to know each other. Resource persons to define the objectives of the course and elicit the expectations of the participants from the course. Based on the above, the resource team may reset the course objectives. It is important that the resource team provide space and time for the participants to freely share their experiences and opinions, since the issues that emerge from their experiences will form the basis of the objectives of the course.	
Daufaumana Aida	Resource Person Course Team	
Performance Aids Media	Checklist, Flow Chart	
Trainers	White Board/LCD Projector/PPT Course Co-ordinator and Faculty of CDM	
Time	2 hours	
Day I	Session III & IV	
Topic	Basic Concepts of Disaster Management	
Contents	 Disaster Terminology Concept of Disaster Management Past history of disasters Disaster events in Karnataka and other states 	
Session Objective	Participants will be able to;	
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	 Explain the meaning of terminologies related to Disaster management Draw distinction between Hazard, Risk, Vulnerability, Preparedness, Mitigation, Response etc.
Expected Outcome	Will be able to prepare CDMP and rehearse it
Method	PPT, Lesson, Micro film, case study and Discussion
Process	The resource person conduct a group exercise for five minutes on Hazards and Impact vs Frequency of Hazards. One representative from each group will present the group outcome. This will be followed by a pictorial presentation by the resource person on hazards, risks, tools of risk assessment, steps to mitigate the impact of hazards A few case studies will be illustrated during discussion.
Performance Aids	Checklist
Media	White Board/LCD Projector/PPT/ Hand outs
Trainers	Course Co-ordinator
Time	2 hours

Day I	Sessions V and VI	
Topic	Urban Risks due to Bomb blasts and Bomb Disposal Safety: Demonstration of equipment and materials followed by presentation	
Contents	 Types of Bombs Impact of Bombs Preventive measures Safety precautions in bomb disposal Demo of bombs Cases of bomb explosions in different parts 	
Session Objective	Participants will be able to;	
	• Identify the precautions and preventive measures to be taken during bomb threats and disposal	
Expected Outcome	Identify different forms of bomb threats and disposal methods	
Method	PPT, Demonstration, case study and Discussion	
Process	The resource persons make a pictorial presentation of different incidents of bomb explosion, bomb threats and bomb disposal procedures adopted by Bomb squad. This will be followed by demonstration of different explosive materials being used in bombs. A few cases of bomb explosions are presented. Finally, the preventive and safety precautions for community and school children are discussed.	
Performance Aids	Models of Bombs	
Media	White Board/LCD Projector/PPT/ Hand outs	
Trainers	Bomb Squad from Karnataka Police	
Time	2 hours	
Assessment	Question answer	

Day II Session I & II

Day II	2000001 1 00 11
Topic	Psycho-Social Care in Disasters:
	Group Activity on Psycho-social care
Contents	Introduction to Psycho-social care
	Factors to be taken for planning
	Trauma care
	Child care
	Care for old aged and the women
Session Objective	Participants will be able to;
	describe the factors to be considered while providing Psycho-social
	care
	Use tools to plan for Psycho-social care during and after disasters
Expected Outcome	Planning for Psycho-social care
Method	PPT, Group Activity, case study and Discussion
Process	The RP will make presentation on Psycho-social care focusing on the
	Importance and Factors with case illustrations and Group activity. The
	importance of different target groups will be discussed and approach to
	planning and facilitating such target groups will be discussed.
Performance Aids	Work book on psycho-social care
Media	White Board/LCD Projector/PPT/ Hand outs
Trainers	RPs from NIMHANS
Time	2 hours
Assessment	Group Presentation and Quiz for 5 minutes to test the ToL

Day II Session III

Topic	Landslide Management
Contents	
Session Objective	Participants will be able to;
	Define Landslide
	List types of Landslides
	List causes of landslides
	Explain the remedial measures for Landslides
Expected Outcome	Landslide Management Techniques
Method	PPT, case study and Discussion
Process	The RP will make a PPT on landslide management with case illustrations in Karnataka. The measures to prevent landslides in western ghats regions of Karnataka will be discussed. The landslides
	hazard map of Karnataka will be explained. This will be followed by question answer session.
Performance Aids	Landslide hazard map of Karnataka
Media	White Board/LCD Projector/PPT/ Hand outs

Trainers	CDM Faculty	
Time	1 hours	
Assessment	Question - answer	
Day II		Session IV
Topic	Disaster Management Act	

Day II	Session IV
Topic	Disaster Management Act
Contents	
Session Objective	Participants will be able to;
	• explain the salient features of the DM Act
Expected Outcome	Application of provisions of the Act related to DDMP. Penalty, Roles
	and responsibilities of Officers, Line departments and DDMA.
Method	PPT and Discussion/ Question answer
Process	The RP will make a PPT on DM Act-2005. Following point will be
	covered in the presentation;
	Background behind DM Act-2005
	Terminologies
	Organizational structure for DM at District/State/National levels
	Roles of DDMA/SDMA
	DDMP provisions
	Roles and Responsibilities of DDMA/Departments/Officers
	Penal provisions
Performance Aids	DM Act – 2005
Media	White Board/LCD Projector/PPT/ Hand outs
Trainers	Faculty of CDM
Time	1 hour
Assessment	Test for 5 minutes

Assessment Test for 5 minutes

Day II Session V & VI

Topic	Fire safety Measures: Fire services	
	Rescue and First Aid: Home Guards and Fire Services	
Contents		
Session Objective	Participants will be able to;	
	Explain the fire safety measures	
	Describe the techniques for First Aid	
Expected Outcome	Participant will be able to demonstrate the techniques of fire safety and	
	first aid including search and rescue.	
Method	PPT, case study ,Discussion and Demonstration	
Process	The RP from Fire services will make brief presentation on fire safety	
	measures followed by demonstration of equipment for rescue and fire	
	safety.	
	This will be followed by demonstration and mock drill for aid by the	
	Home guards and fire services.	
Performance Aids	Checklist/chart on fire safety and first aid procedures.	

Media	White Board/LCD Projector/PPT/ Equipments and machines	
Trainers	RFO & Team	
	Home guard & Team	
Time	2 hours	
Assessment	Question- answer	
Day III	Session I	
Topic	Earthquake safe Foundation Designs	
Contents		
Session Objective	Participants will be able to;	
	explain the steps in earthquake safe foundation designing	
	Identify the earthquake safe foundations	
Expected Outcome	Adopt Safe foundation methods in earthquake prone areas	
Method	PPT, case study and Discussion	
Process	The RP will make a PPT on different types safe foundations for	
	earthquake prone areas. During the presentation, design parameters and	
	earthquake safety considerations for earthquake zone II to V will be	
	discussed. followed by Demo will be presented and question and	
	answer session will be done during last 10 minutes	
Performance Aids	Types of safe foundations and design steps	
	List of BIS Codes	
Media	White Board/LCD Projector/PPT/ Hand outs	
Trainers	Professors from SJCE, Mysore	
Time	1 hour	
Assessment	Question answers	
Day III	Session II	
Topic	Drought Management in Karnataka	
	Types of Droughts	
Contents	Impacts of Droughts	
	Drought mitigation	
	Status of Karnataka and Case Studies on Drought Management	
Session Objective	Participants will be able to;	
	List types of Droughts	
	Explain the status of drought situation in Karnataka	
	Discus the case studies of drought situation in Karnataka	
	Discuss the case studies of drought mitigation measures in	
	Karnataka and other states	
Expected Outcome	Drought management planning	
Method	PPT, Demonstration, case study and Discussion	
Process	The RP will make a PPT on drought and types of Karnataka. During	
	the presentation, the RP will specifically highlight the status of drought	
	in different parts of Karnataka. Drought mitigation strategies and case	
	studies will be explained. A question answer session will be conducted	
	towards the	
	End for 20 minutes.	

Performance Aids	Checklist on drought mitigation measures	
Media	White Board/LCD Projector/PPT/ Hand outs	
Trainers	Director/Professor on Drought Management from KSNDMC, GKVK	
	or ISEC	
Time	1 hour	
Assessment	Random questioning with 5 questions and answering	
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Day III	Session III
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Day III	Session III	
Topic	Introduction to TTX	
	 Meaning of TTX and its importance in DM action planning 	
Contents	Steps for TTX	
	Teams in TTX	
	Scenario development	
	• SoPs	
	Application of SoPs in TTX	
	Micro-film followed by discussions on TTX	
Session Objective	Participants will be able to;	
	Explain the meaning of TTX	
	Explain the steps in TTX	
	Describe the different roles to be played during TTX	
Expected Outcome	Action planning using TTX methodology	
Method	PPT, case study and Discussion	
Process	The RP will explain the importance of TTX and its significance in DM.	
	The steps in TTX and roles to be played by the participants and	
	formation of teams namely players, observers, evaluators, media etc.	
	will be explained. A short micro-film will be screened to understand	
	the concept.	
Performance Aids	Steps in TTX, Checklist on the process of TTX	
Media	White Board/LCD Projector/PPT/ Hand outs	
Trainers	ATI/CDM Faculty	
Time	1 hour	
Assessment	Question answer	

Day III Session IV

Day III	Session 1 v
Topic	Activity on TTX
Contents	
Session Objective	Participants will be able to;
	Develop a scenario
	Write Message cards (Minor and Major details)
	Write the steps and action plan for playing the TTX
	Play the TTX
Expected Outcome	Developing and playing the TTX
Method	Group Activity
Process	Different teams as formed earlier would play the roles. Control room
	team and the response team would play their respective exercises one
	after the other. The observers will make the list of observations on the

	player team and control room team. Evaluators will evaluate each member of the group. This will be followed by the feedback of	
	facilitators/trainers and drawing of lessons from the TTX	
Performance Aids	Maps, Scenario, Steps in TTX, Checklist on the process of TTX	
Media	Handout on TTX	
Trainers	ATI/CDM Faculty	
Time	1 hour	
Assessment	Question answer	

Day III	Session V&VI
Topic	HRVC Analysis and Preparation of Disaster Management Plan
Contents	 HRVC Analysis Tools for risk assessment
	 Tools for risk assessment Steps in CDMP
Session Objective	Participants will be able to;
Session Objective	• Explain HRVC
	Apply tools for HRVC
	• Steps in CDMP
	Outline for CDMP
Expected Outcome	Use HRVC tools for preparing CDMP
Method	Presentations and Group Exercise
Process	The RP will discuss the HRVC analysis and present the tools for
	HRVC analysis. This will be followed by Group activity on preparation
	HRVC analysis for four cities. Each group will do for one city. This
	will be followed by presentation and preparation of an outline structure
	for Disaster Management Plan. Groups will finally make the
	presentation of outline DMP.
Performance Aids	Nil
Media	White Board/LCD Projector/PPT/ Hand outs
Trainers	Faculty of CDM
Time	2 hours

Day IV	Session I	
Topic	Outbreak of Diseases and Health Care Management	
Contents	Types of communicable diseases	
	Preventive measures for communicable diseases	
	Prevention of outbreak of epidemics	
	Plan at the city level for Health and Hygiene management with focus	
	on disasters	
Session Objective	Participants will be able to;	
	describe the reasons for health hazards	
	identify reason for communicable diseases	
	mitigation measures for health hazards	
	Plan preparation for health care management	
Expected Outcome	Will be able to prepare preparedness an mitigation plan for Health and	

	Epidemic management	
Method	PPT, case study and Discussion	
Process	A pictorial PPT followed by discussion on outbreak of communicable diseases would be presented. The roles and responsibilities of Local authorities and ULB and district administration to control the outbreak of diseases will be discussed. A case study of an epidemic situation in a disaster affected urban area will be discussed through presentation. The	
	RP also provides an outline for preparing a plan for health care management to contain the disaster situations.	
Performance Aids	List of communicable diseases	
	Checklist for preventive measures for communicable diseases	
Media	White Board/LCD Projector/PPT/ Hand outs	
Trainers	District Surveillance Officer or DHO	
Time	1 hours	
Assessment	Quiz for 5 minutes to test the ToL	

Day IV Session II

Day IV	Session II
Topic	Formulation of DDMP
	DDMP templates
Contents	Four existing DDMPs
Session Objective	Participants will be able to;
	Review and Reformulate DDMP
Expected Outcome	Revised DDMPs
Method	Group exercise
Process	Participants will be divided into four groups. A brief introduction on
	DDMP templates will be given followed by discussion on the process
	to be followed while preparing the DDMP. Each group is given one
	existing DDMP for evaluation as for standard templates. Gaps are
	identified and revised DDMP outline will be prepared and presented by
	each group. Experts will give feedback on each presentation
Performance Aids	Templates
Media	White Board/LCD Projector/PPT/ Hand outs
Trainers	ATI/CDM Faculty
Time	2 hours
Assessment	Quiz for 5 minutes to test the ToL

Day IV Session III & IV

Topic	First Aid	
Contents		
Session Objective	Participants will be able to;	
	Explain the procedures for First Aid	
	Draw lessons from the Case Studies on First Aid	
Expected Outcome	Procedure and technique for first Aid management	
Method	PPT with pictures and case Studies	
Process	The RP will make a PPT with illustrations on first Aid and procedures	
	and techniques for different types of trauma victims. The session will	

	be interactive and demonstrations on first aid will be exhibited by the	
	RP taking a few participants as mock victims.	
Performance Aids	Checklist on first aid	
Media	White Board/LCD Projector/PPT/ Hand outs	
Trainers	Professor / Practitioner from health department	
Time	2 hours	
Assessment	Review of First Aid Steps	

Day IV Session V

Day IV	Session v	
Topic	GIS and Remote Sensing Applications in GIS	
Contents	Introduction to GIS and Remotes sensing	
	 Uses of GIS and Remote sensing 	
	 Preparation maps 	
	Steps to adopt GIS	
Session Objective	Participants will be able to;	
	• Explain the uses of GIS and Remote Sensing in DM	
	• Describe the steps in preparing maps/data base using GIS	
	Adopt GIS in DDMP preparation	
Expected Outcome	Use of GIS in DDMP	
Method	PPT and Discussion/ Question answer	
Process	The RP will make a pictorial presentation on GIS and Remote	
	sensing applications. During presentation, instances of how the GIS	
	and Remote sensing data are synchronized to prepare maps will be	
	presented. Particular focus on the use of GIS in preparing DDMP	
	will be illustrated with examples.	
Performance Aids	Nil	
Media	White Board/LCD Projector/PPT/ Hand outs	
Trainers	RP, ISRO/KSRSAC	
Time	1 hour	

Day IV Sessions VI

Day IV	Sessions VI
Topic	Storm Water Drainage and Flood Management in Bangalore
Contents	 Flood situation in Bangalore Problems in existing storm drainage system
	Preventive measures
	Project undertaken to revamp the SWD
Session Objective	Participants will be able to;
	describe the reasons for floods in cities
	prepare the plan for flood mitigation and Preparedness
Expected Outcome	Steps in Flood mitigation and preparedness plan
Method	PPT, Demonstration, case study and Discussion
Process	The RP will make a PPT on Flood situation in Bangalore. He will
	quote pictures, drainage maps of different areas prone to flood in
	Bangalore. Particular focus will be given to discussion on;
	Problems in existing storm drainage system

	Preventive measures	
	Project undertaken to revamp the SWD	
Performance Aids	Storm Water Drainage Maps of Bangalore and Project Documents	
Media	White Board/LCD Projector/PPT/ Hand outs	
Trainers	CE / Senior Engineers of BBMP	
Time	1 hours	
Assessment	Random questioning with 5 questions and answering	

Day V	Sessions I, II, III, IV &V
Day y	Sessions 1, 11, 111, 1 v & v

Trainer Skills for Disaster Management
Trainer/Instruction Skills: Basic Terminology, SAT Cycle,
Feedback, LU and LE, Job, Task, Duties of Trainer
Training Designing Skills
TTX, Lecture, Case study, Group Exercise, Role Play
Preparation of Training Designs on Disaster Management for
different Target Groups
Presentation of Designs
Feedback on Designs
Participants will be able to;
• Demonstrate the trainer skills as direct trainer and designer for DM
• Design the training on DM for different target groups
Trainer Skills
PPT and Discussion/Question answer
The RP will provide tools, techniques, methods and practice
sessions/activities on instruction and designing skills. This will be
followed by feedback. The participants will prepare designs for disaster
management training for different levels of target group to be
conducted in their institutes.
Checklists Lecture, GD, Exercise etc.
White Board/LCD Projector/PPT/ Hand outs
Recognised Trainer on DTS and DoT
5 hours
Design presentation

Programme Schedule

Time	Topic/Content
	Registration
Day One	
	Introductory Activities
09.30-10.30AM	and Expectations
	Warming up Activity
10.30-11.30AM	INUAGURAL SESSION
	Disaster Management – Roles and Responsibilities of Officers
11.45-01.45 PM	Basic Concepts : Disaster Management
02.30-04.45PM	Bomb blast & Bomb Disposal Safety-Demonstration of Equipments &
	Presentation.
04.45-5.30PM	Screening of Film on Somyarpettai followed by Discussions
Day Two	Recap of Day-1
09.30-09.45AM	
09.45- 11.30 AM	Psycho-Social Care in Disasters
	Group Activity on Psycho-Social Care
11.45-12.45 PM	Landslide Management
12.45-01.45 PM	Disaster Management Act 2005
02.30-03.30PM	Fire Safety Measures – Fire Services
	Rescue and First Aid: Home guards
03.45-04.45PM	Demonstration by Fire Services and Home Guards
Day Three	Recap of Day 2
09.30-09.45AM	
09.45-10.45PM	Earthquake Management
10.45-012.45PM	Drought Management in Karnataka
12.12.01.:===	
12.45-01.45PM	TTX : Scenario Development
	Standard Operating Procedures and
	Roles
	Players
	Observers

	Evaluators
	Media
	(Control Room Team and Response Team)
02.30 – 04.30 PM	Hazard, Risk, Vulnerability Analysis
	Presentation followed by <i>Group Exercises I & II</i>
04.30 – 05.30 PM	Screening of Film on Nature's Fury followed by Discussions
Day Four	Recap of Day 3
09.30-09.45AM	
09.45-10.30AM	Outbreak of Diseases and Health Care Management
10.3011.30 AM	Formulation of DDMP
11.4501.45 PM	First Aid for Disaster victims
02.30 – 03.30 PM	GIS and Remote Sensing Applications in DM
03.45-04.45 PM	Flood Management – Case study of Bangalore
04.30 - 05.00 PM	Screening of Film on Chanauti followed by Discussions
Day Five	Recap of Day-4
09.30-09.45AM	
09.45-11.30AM	Direct Trainer Skills for Disaster Management
11.45- 01.45	Training Designing Skills and preparation of Training Design on Disaster Management for different levels followed by presentations
2.30-3.30 PM	Feedback Report and Discussions
3.30 – 4.45 PM	Validation and Closing