

**Training Program on  
Emergency Action Plan for Dams  
(15 -19 July 2024)  
REGISTRATION FORM**

Name (in capitals):

Designation:

Organization:

Responsibilities (in

brief):

Full Postal Address

Tel Nos (with STD Code):

Email:

Mobile

Whether require accommodation?

YES / NO

Date:

(Signature of the Participant)

**SPONSORING AUTHORITY**

Full Postal Address

Tel Nos (with STD Code):

Email :

Mobile

Date

(Signature and Seal)

Completed Registration Form may be sent by email:

[nwa.pune@gmail.com](mailto:nwa.pune@gmail.com) [sudistakdas@gmail.com](mailto:sudistakdas@gmail.com)



**Government of India  
Ministry of Jal Shakthi  
Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Water Commission**



**Training Program on  
Emergency Action Plan for Dams  
(15 -19 July 2024)**



**Organized by  
National Water Academy, CWC, Pune**

## INTRODUCTION AND OBJECTIVE

India ranks third globally in terms of number of large dams in operation and about 400 dams are under construction. In addition, there are several thousand smaller dams. These dams are vital for ensuring the water security of the Country; and these also constitute a major responsibility in terms of asset management and safety. Dams pose significant threats to human life, crops, houses, buildings, roads, the environment and the economy as well. To ensure safety of dams is of paramount importance to prevent potential hazard and to protect this valuable infrastructure. Safety of dams can be enhanced by operational performance, addressing structural integrity, surveillance, maintenance, instrumentation, design intrinsic risks, natural hazard risks, emergency planning, capacity building, and physical rehabilitation, focusing on institutional strengthening and sustainable operation. The **Dam Safety Act 2021** mandates the monitoring, inspection, operation, and maintenance of dams to prevent dam failure-related disasters. It also mandates to assess potential implications of failure of a dam on the downstream state and coordinate mitigation measures. Chapter VIII of the Dam Safety Act provides for the obligation of the dam owner with regard to the **Emergency Action Plan (EAP)**, before allowing the initial filling of the reservoir and thereafter updating it regularly.

An **Emergency Action Plan (EAP)** for dams is a critical document designed to mitigate risks and manage potential emergencies associated with dam operations. A carefully conceived and implemented EAP is one positive step that can take to accomplish dam safety objectives, protect investment, and reduce potential hazard. It outlines specific procedures and protocols to be followed in various scenarios to ensure the safety of downstream communities, infrastructure, and the environment. It emphasizes the importance of preparedness and swift response in safeguarding lives and property in the event of a dam-related emergency. An emergency action plan is not a substitute for proper maintenance or remedial construction, but it facilitates the recognition of dam safety problems as they develop and establishes nonstructural means to minimize the risk of loss of life and reduce property damage.

## PROGRAM CONTENTS.

### Main topics for technical sessions are:

Understanding dam safety and different types of emergencies, Introduction to EAP, its need and importance, Flood risk associated with dams, Flood hazard, vulnerability, and risk assessment, Design flood estimation and Inflow forecasting, Flood routing, Flood inundation mapping using HEC-RAS (Hands-on exercise), Remote sensing and GIS in flood mapping (Hands-on exercise), General procedure for developing an EAP, Components of EAP, Developing different components of EAP, The EAP Five-Step Response Process, Event Detection, Emergency Level Determination, Notification and Communication, Actions to be Taken, Termination and Follow-up, Emergency Detection, Evaluation, and Classification, Case study of EAP of a specific dam.

## PROGRAM FEE

There is no program **fee for participants from Central and State Govt. Departments**. Charges for participants from various categories are as below:

Category	Description	Fee in ₹(per participant)
A.	Central/State/Local Government Depts. including their autonomous bodies:	Nil
B.	'Not for Profit' Central and State PSUs	Nil
C.	Recognized academic institutions, NGOs	1200/-
D.	Central and State Public Sector Undertakings	8,000/-
E.	Private Companies, individuals	12,000/-

**Discounts applicable:** (a) 50% for PSUs of MoJS i.e. WAPCOS & NPCC (no group discount); (b) For others – 20% discount for 3-4 participants; 30% discount for 5 or more participants from the same organization.

**Payment** for the programme fee if applicable is to be deposited with NWA before the commencement of program. Payment is accepted through **Online/ Cheque/ Demand Draft without deducting any TDS. DD drawn in favour of PAO-Ministry of Water Resources payable at Pune** or through electronic transfer in the Account details given below:  
Account holder name: PAO - Ministry of Water Resources, Account No: 11382328092; IFSC Code: SBIN0001904

**RESOURCE PERSONS** The resource persons for the program would be subject experts from CWC-HQ, NDSA, SDSOs, NIH Roorkee etc.

## DURATION

The program is of five days duration scheduled during 15 -19 July 2024. The participants are expected to reach NWA by the evening of 14 July 2024 and should plan to leave only after 1900 Hrs. 19 July 2024.

## VENUE National

Water Academy, CWC, Pune-Sinhagad Road, Khadakwasla, Pune – 411024

## TARGET GROUP

This training course is intended to the officers of Central/State Govts/PSUs/Dam owners in the rank of JE/ AE/AEE/EE/SE or equivalent and involved in the activities of Dam Safety/Dam operation/Dam maintenance etc. **Due to limited computers availability at NWA Pune for hands on, participants are advised to bring their own laptops.**

## PARTICIPATION

The nomination of the officers fitting the target profile may be sent to the Program Coordinator latest by 08 July 2024 by email ([nwa.pune@gmail.com](mailto:nwa.pune@gmail.com) ; [sudistakdas@gmail.com](mailto:sudistakdas@gmail.com)). The nominated officers are requested to start the program only after confirmation of their accepted nomination. The accepted nominations will be displayed on NWA's website on 08 July 2024 evening.

## ACCOMODATION

The trainee officers would be accommodated in NWA hostel on applicable payment basis. Lodging & boarding charges as per government rates (about Rs.275/- per person per day) will have to be borne by the participants. Working Lunch during the training program will be provided by NWA, CWC. Participants will have to bear breakfast, evening snacks and dinner charges, as applicable. Airport/ Railway station pickup/drop will also have to be arranged by the trainee officers themselves.

## WEATHER

In July, Pune experiences a lot of rain and pleasant weather. The average maximum temperature during the day ranges from 25 to 27 degree Celsius, while the average minimum temperature at night ranges from 20 to 25 degrees Celsius.

## CONTACT

For sending nominations or for any information about this program, please contact:

S K Das, Director & Course Coordinator  
National Water Academy, CWC, Khadakwasla R S ,Pune – 411 024  
Mobile: # 9818707541

Email: [nwa.pune@gmail.com](mailto:nwa.pune@gmail.com) ; [sudistakdas@gmail.com](mailto:sudistakdas@gmail.com)