National Water Academy, Pune

Training Program on

Assessment of Structural Safety of Existing Dams

(28th December 2026 - 01st January 2027)

NOMINATION 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)**

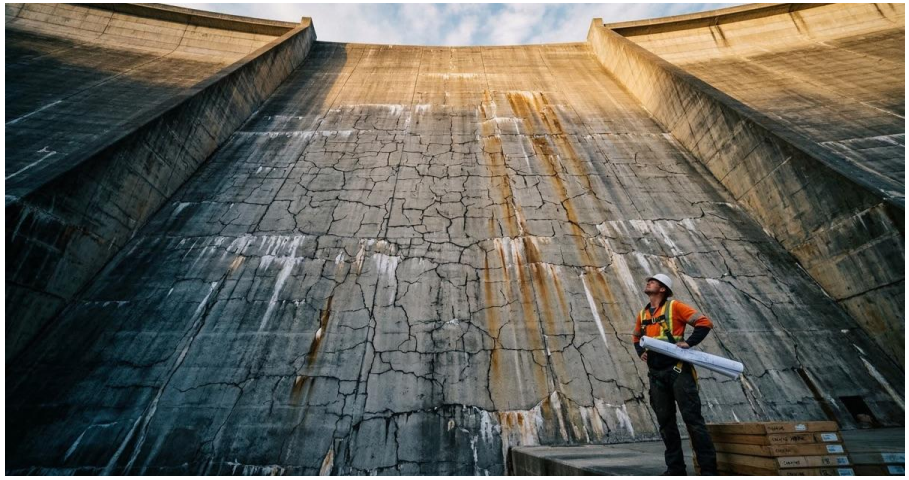
Nomination Form may be sent by email nwa.pune@gmail.com directordes-nwa@gov.i

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

Training Program on

Assessment of Structural Safety of Existing Dams

(28th December 2026 – 01st January 2027)



Organized by
National Water Academy, CWC, Pune

INTRODUCTION AND OBJECTIVE

India ranks third globally in terms of total number of specified dams after USA and China. As per National Register of Specified Dams 2025, there are 6628 total number of specified dams in India out of which 83 specified dams are under construction. In addition, there are huge number of non-specified dams in India as well. These dams are vital for ensuring the water security of the Country. Apart from providing innumerable benefits to society, dams also pose risk of potential impact on downstream communities and ecosystems.

Out of total 6628 specified dams, around 68% dams are more than 25 years old. So, with the growing age many of existing dams have developed various structural deficiencies and they do not meet the requirements of the present design standards. Design review and rehabilitation of dams are required to counter various deficiencies which develop with time and to correct inadequacies on account of revisions in various standards/guidelines.

Ensuring the safety of dams is of paramount importance to prevent potential hazards and to protect this valuable infrastructure. The **Dam Safety Act 2021** provides many provisions for safe operation & maintenance of dams and to prevent dam failure-related disasters. In line with the DSA 2021, a systematic assessment of the structural performance and safety of dams is essential for identifying deficiencies, evaluating potential failure mechanisms and planning appropriate preventive, corrective and rehabilitation measures

To provide an insight into the various issues related to structural safety of dams and to decide remedial measures/Rehabilitation, a five days Training Program on "***Assessment of Structural Safety of Existing Dams***" has been conceptualized by NWA, CWC Pune. The program aims to provide participants with practical knowledge and technical exposure through expert lectures, case studies, laboratory demonstrations, field visits and hands-on training in structural analysis using advanced software.

PROGRAM CONTENTS

- **Overview of Dam Safety and important provisions of DSA 2021**
- **Types, Components of Dams and Structural Behavior**
- **Performance Evaluation and Failure Mechanisms**
- **Case Study on Structural Rehabilitation of dams**
- **Material Testing and Laboratory Investigations**
- **Seismic Performance Evaluation of Dams**
- **Geophysical Investigations for Dam Safety**
- **Field Exposure and Site Visits**
- **Structural Analysis and Numerical Modelling through advanced software**

This training program is designed to empower participants with the necessary expertise to assess structural health and contribute to the safe operation of these critical infrastructures.

TARGET GROUP

This training is intended for the officers of Central/State Govts/ PSUs/ Dam owners working or having experience in the design, execution, operation & maintenance and safety of dams & barrages as well as stakeholders from private Organizations/ Research Institutions/ Academia/ Consultants/ NGOs etc.

RESOURCE PERSONS

The resource persons for the program would be experts from CWPRS, State WRD, Retired CWC experts, Industry etc.

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 Rs.(per participant)
A.	Central/State/Local Govt Depts. including their autonomous bodies	Nil
B.	'Not for Profit' Central and State PSUs	Nil
C.	Recognized academic institutions, NGOs	1,500/-
D.	Central and State Public Sector Undertakings	10,000/-
E.	Private Companies, individuals	15,000/-

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 program fee, if applicable, is to be deposited with NWA before the commencement of the program. Payment is accepted through **Online / 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

DURATION

The 5 days duration program is scheduled for **28th December 2026 – 01st January 2027**. The participants are expected to reach NWA by the evening of 27th December 2026 and should plan to leave only after 20:00 Hrs. 01st January 2027.

VENUE

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

PARTICIPATION

- The authorities of Central Govt./State Govt./PSUs/ Private Organizations/Consultants/Academia etc. are requested to send nominations of their officers/personnel in the Nomination form given in the brochure through email to nwa.pune@gmail.com / directordes-nwa@gov.in. The last date of sending nomination is **22nd December 2026.**
- All nominated and interested participants shall share their details in the google form given below: **https://forms.gle/H3bLHZjhLALw5b1V8**
- Filling the google form is only for obtaining information by NWA. This does not guarantee the acceptance of the nomination.
- The nominated officers/personnel are requested to start their journey for the program only after confirmation of their nomination. The accepted nominations will be displayed on NWA's website on **23rd December 2027** in the evening.
- All participants whose nominations are accepted by the NWA, Pune will now be required to register on e-learning platform of NWA i.e **https://elearning.nwapune.co.in**. After completing the registration & login to the e-learning website of NWA, they are also required to enroll themselves for the program "Assessment of Structural Safety of Existing Dams" scheduled during **28th December 2026 – 01st January 2027**. The enrollment key will be shared with the participants after their nomination is confirmed by NWA. The information related to various activities of the training program as well as the presentation material will be made available on this platform.

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 (Participants from CWC will be provided free lodging & boarding facilities). Other 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

- During December, Pune generally experiences pleasant, cool and comfortable winter weather. The average maximum temperature during the day ranges from **28 to 30°C**, while the average minimum temperature at night ranges from **12 to 16°C**. The weather is generally dry, with clear skies and very little or no rainfall. Light woollen clothing may be advisable during early mornings and evenings.

CONTACT

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

Shri Vivek Kumar Verma, Director & Course Coordinator
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Mobile: # 9140706811 Email: nwa.pune@gmail.com ; directordes-nwa@gov.in