

ईशा कालिया
Isha Kalia
संयुक्त सचिव
JOINT SECRETARY



भारत सरकार
आवासन और शहरी कार्य मंत्रालय
संकल्प भवन
GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
SANKALP BHAWAN

नई दिल्ली-110011, तारीख 20

New Delhi-110011, dated the 20
Date: 22nd April, 2026

DO. No. Z-22011/1-RC/2026-CPHEEO

Dear Sir/Ma'am,

Government of India has accorded the highest priority to water supply and sanitation services across the country. In this regard, the Government has been implementing AMRUT 2.0 and SBM 2.0 with the objective of achieving universal coverage of water supply and sanitation services in all ULBs. To realize these objectives, Public Health Engineering Departments, Water Supply and Sewerage Boards, and Municipalities require a larger pool of qualified and trained professionals for effective planning, design, and implementation of schemes, in a cost-efficient manner, as well as for ensuring proper operation and maintenance of infrastructure developed under these Missions.

The Central Public Health and Environmental Engineering Organisation (CPHEEO), Ministry of Housing and Urban Affairs, has been conducting **Refresher Courses** under the PHE Sector Development Scheme through 42 empanelled academic and training institutes across the country. These courses are designed to enhance the knowledge and skills of professionals engaged in the field of water supply, sanitation, climate change and sustainability. Training Calendar for the year 2026-27 containing the name of course, institute, duration, location is attached herewith for ready reference.

The Refresher Courses are sponsored by CPHEEO, MoHUA, and relevant charges will be borne by the Ministry as per existing PHE Sector Development Scheme financial norms. There will be no course fee for participants; however, TA/DA have to be borne by the parent/nominating authority or be met through the various ongoing Missions of MoHUA. Detailed information related to Refresher Courses is also available on the Ministry's website: <https://mohua.gov.in> under "what's new section".

In view of the above, I request you to kindly nominate suitable candidates from your department/board to participate in the various training programmes and forward the duly filled Performa (copy attached) **latest by 15/05/2026** to Section Officer, CPHEEO, Ministry of Housing & Urban Affairs 3rd Floor, Sankalp Bhawan, K G Marg, New Delhi – 110001 Email: cpheeo-mohua@gov.in. For any query you may contact M/s Ritu Pachori, Technical Officer at Mob: 9910119875.

Warm Regards,

Isha
(Isha Kalia)

Encl: As above

To,

1. Principal Secretary (UD) /SMDs of Missions (AMRUT/SBM) of All States / UTs.
2. CEO / MD / Director of Water Supply and Sewerage Boards – All States / UTs.
3. Engineer-in-Chief, Chief Engineers of UD / PHED / Water Supply and Sanitation Departments - All States / UTs.

Copy for Information:

1. Municipal Commissioners of Municipal Corporations – All States / UTs.
2. All empanelled Academic and Training Institutes for information and advance preparedness to run courses.

GOVT. OF INDIA									
CPHEEO									
LIST OF REFRESHER COURSES TO BE SPONSORED BY THE MINISTRY DURING 2026-27									
Sl. No.	COURSE CODE	NAME OF THE REFRESHER COURSE	Objective	Target Participants	PLACE	TRAINING INSTITUTE	DURATION	PROBABLE MONTH	LEVEL OF COURSE
(A) Modules Ready to Launch									
1	SWM/A3	Solid Waste Management – Street Sweeping, Drain Cleaning, and Waste Collection Best Practices – Efficient Cleaning Techniques	Understand major sources of solid waste, the management value chain (collection to disposal), and SOPs for cleaning streets and drains.	Field operators, technicians, Group C employees and Jr. Engineers etc involved in solid waste management	Mumbai	AIILSG	3 Days	Oct-26	Basic
2	SWM/A5	Solid Waste Management –Personal Protective Equipment (PPE) & Occupational Health Safety – Proper Use of Safety Gear	To enhance understanding of occupational hazards in solid waste and the correct use and maintenance of safety gear to prevent disease and accidents.	Field operators, technicians, Group C employees and Jr. Engineers etc involved in solid waste management	Mumbai	AIILSG	1 Day	Nov-26	Basic
3	UWM/A1	Basics of Urban Wastewater Management - Introduction to Assessment, Wastewater Types, Treatment, Standards/Regulations, and Safe Disposal Mechanisms	Understand wastewater origin, composition, health/environmental impacts, and the step-by-step treatment and safe disposal/reuse process.	Field operators, technicians, Group C employees and Jr. Engineers etc involved in urban wastewater management	Mumbai	AIILSG	2 Days	Jul-26	Basic
4	UWM/A2	Personal Protective Equipment (PPE) & Occupational Safety in Wastewater Handling – Safety equipments adopted while maintenance of sewer workers and safety practices adopted by workers	Build awareness of PPE types, safety tools, and safe O&M procedures; understand responsibilities for procuring and maintaining safety gear.	Field operators, technicians, Group C employees and Jr. Engineers etc involved in maintenance of sewer network.	Mumbai	AIILSG	1 Day	Aug-26	Basic
5	UWM/A4	Faecal Sludge & Septage Management (FSSM) – Handling the Operation of On-site Sanitation Systems, Characterization of Sludge, Methods of FSSM, and Sludge Reuse for Different Applicability	Understand on-site sanitation (septic tanks/pits), safe desludging practices, treatment technologies, and sludge reuse applicability.	Field operators, technicians, Group C employees and Jr. Engineers etc especially focussing on FSSM	Mumbai	AIILSG	2 Days	Sep-26	Basic
6	UWM/C24	Wastewater Tariff, House Connections & STP Capacity Utilization – Financial Sustainability Strategies	To provide analytical tools and regulatory frameworks to transform wastewater services into financially viable, performance-driven utilities.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on wastewater management.	Hyderabad	ASCI	5 Days	27nd-31st July; 2nd-6th Mar	Advanced
7	UWM/C34	Application of IoT-Based Monitoring of Sewerage Systems & Sewage Treatment Plants (STPs)*	To strengthen technical capacity in adopting IoT-based monitoring and automation for sewerage networks and STPs, enabling real-time monitoring, predictive maintenance, SCADA integration, and improved wastewater service reliability.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on wastewater management.	Hyderabad	ASCI	4 Days	22nd-25th June; 17th-21st Aug	Advanced
					Mumbai	MCMCR		28th Sept-01st Oct 2026,15th - 18th Feb,	
					Chennai	CMWSSB		22nd-25th June; 17th-21st Aug	
8	WS/C23	Planning, Design & Implementation of 24x7 Water Supply Systems/ Drink from Tap, including Service Level Benchmarks	To equip participants with technical and managerial skills for transitioning urban water systems from intermittent supply to continuous 24x7 supply using hydraulic modelling (EPANET), digital tools (GIS, SCADA), NRW reduction strategies, service level benchmarks, and preparation of Mini-DPR implementation roadmaps.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on watersupply management.	Hyderabad	ASCI	5 Days	7th-11th Sep; 22nd-26th Feb	
9	WS/C29	Financing of Water Supply Projects & PPP Models	To strengthen capacity in financial planning, lifecycle costing, funding architecture, project appraisal (NPV, IRR, DSCR), risk allocation, and structuring PPP models for financially sustainable urban water supply systems.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on watersupply management.	Hyderabad	ASCI	3 Days	7th-9th Oct; 22nd-24th Dec	Advanced
10	WS/C36	Water Supply Management – Water Tariff Design for House Connections & Financial Sustainability	Strengthen practical understanding of water tariff systems, cost recovery, and financial sustainability frameworks; apply structured tariff design and equitable pricing.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply management.	Hyderabad	ASCI	4 Days	10th-13th Nov; 5th-8th Jan-27	Advanced

Sl. No.	COURSE CODE	NAME OF THE REFRESHER COURSE	Objective	Target Participants	PLACE	TRAINING INSTITUTE	DURATION	PROBABLE MONTH	LEVEL OF COURSE
11	SWM/A1	Introduction to Solid Waste Management	To understand solid waste concepts, identify waste types, learn segregation/collection practices, and follow safe handling and PPE protocols.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on Solid waste management.	Thiruvananthapuram	CET	5 Days	6th-10th July, Nov 9th-13th,2026	Basic
					Mumbai	MCMCR		13th -17th July 2026; 04th -08h June 2027	
12	SWD/B5	Design of urban drainage system with QGIS and SWM	To equip participants with the practical skills and knowledge to analyze urban flooding and design improved drainage systems using integrated software like QGIS and EPA-SWMM.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on Solid waste management.	Thiruvananthapuram	CET	5 Days	11th-15th May, 16th-20th Nov,2026	Mid -level
					Mumbai	MCMCR		08th -12th June, 18th-20th Nov 2026	
13	UWM/A5	Training Course on Anaerobic Sludge Treatment and Biogas Generation	To understand the basic principles, microbial processes, and stages of anaerobic digestion, as well as the benefits, challenges, and practical applications of the technology.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water and wastewater management.	Thiruvananthapuram	CET	5 Days	4th-8th May , 9th-13th Nov,2026	Basic
14	UWM/B13	Nature Based Sewage Treatment Technologies and their Application in Various Conditions Including for Water bodies Rejuvenation.	To understand the need for wastewater treatment, identify major pollutants, and recognize the importance of nature-based solutions for sustainability and water body protection.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water and wastewater management.	Thiruvananthapuram	CET	5 Days	11th-15 th May, 12th-16th Oct,2026	Basic
15	UWM/C19	Urban Wastewater Management and Nature Based Solutions– Integration of wetlands and green infrastructure	To provide an understanding of urban wastewater characteristics, public health impacts, and sustainable nature-based management solutions like wetlands and green infrastructure.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water and wastewater management.	Thiruvananthapuram	CET	5 Days	8th-12th June, 14th-18th Dec,2026	Advanced
					Mumbai	MCMCR		12th-16th Oct	
16	WS/B12	GIS Application for Consumer Survey, Mapping and Hydraulic Modelling for Water Networks for field Technicians, Supervisors, and Maintenance Staff Involved in Water Supply Operations.	To master the use of mobile GIS tools for asset mapping, consumer surveys, and providing field data for hydraulic models.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on wastewater management.	Thiruvananthapuram	CET	3 Days	22nd-24th June , 12th-16th Oct,2026	Mid level
					Mumbai	MCMCR		09Tth -11th Sept,03rd-05th March	
17	WS/C33	Digital Transformation & Smart Water Management	To empower professionals with knowledge of IoT, SCADA, GIS-EPANET, and BIM tools for smart water operations.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc	Thiruvananthapuram	CET	5 Days	15th-19th June , 7th-11th Dec,2026	Advanced
18	WS/B13	Operation & Maintenance of Water Supply System including Preventive Maintenance & Leak Detection in Water Distribution System	To identify O&M functions, understand treatment processes, and master leak detection and preventive maintenance techniques.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on wastewater management.	Bhopal	MANIT	5 Days	March, Dec 2026	Mid Level
					Bhopal	AIILSG		March, Dec 2026	
					Chennai	CMWSSB		13th -17th July2026;8th -12th Feb 2027	

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19	WS/B14	Transmission, pumping mains and distribution network design including selection of pipes and fittings	To train participants in population forecasting, hydraulic fundamentals, and the design of water distribution networks.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on wastewater management.	Bhopal	MANIT	5 Days	July 2026, Jan 2027	Mid Level
					Bhopal	AILSG		July 2026, Jan 2027	
20	WS/C28	Water Resource Conservation and Rejuvenation for water supply systems	To evaluate water availability trends and apply Integrated Water Resource Management (IWRM) principles for conservation.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water and	Bhopal	MANIT	5 Days	Sept, Feb	Advanced
21	CB/A2	Carbon Footprint Reduction Strategies in Water and Wastewater Utilities	To understand carbon footprint accounting (Scopes 1, 2, 3) and identify reduction strategies for utility operations.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water and	Mumbai	MCMCR	3 Days	07th-09th Oct,2026	Basic
22	CB/B7	Sustainable Water and Wastewater Management in Green Building	To teach sustainability principles, urban water cycles, and the application of green building rating systems for water efficiency.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water and wastewater management	Mumbai	MCMCR	3 Days	02nd-04th Sept,24th-26th Feb,2027	Mid Level
23	CB/B8	Circular Economy in Construction and Demolition Waste	To provide knowledge on C&D waste quantification, collection, and processing technologies within a circular economy framework.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on waste management	Mumbai	MCMCR	3 Days	25th-27th Nov,2026	Mid level
24	CB/B9	Circular Economy in municipal solid and liquid waste management including Zero Waste Strategies	To provide foundational knowledge of Circular Economy and Zero Waste concepts, focusing on their application to municipal solid and liquid waste management and identifying practical resource	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on solid and liquid waste management.	Mumbai	MCMCR	3 Days	09th -11th Dec,2026	Mid level
25	CB/B10	Policy & Governance for a Circular Economy using Smart Technologiesand Decentralized Solutions	To develop a holistic governance perspective linking technology and policy for circular outcomes in water and waste management.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on circular economy	Mumbai	MCMCR	3 Days	09th -11th Dec,2026	Mid level
26	SWD/C10	Various Innovative Methods of Storm Water Drainage Management Techniques like Sustainable Urban Drainage Systems (SUDS), Low Impact Development (LID)etc. – Planning and Implementation	Understand urban SWD system fundamentals; Apply planning concepts for SUDS and LID; Evaluate engineering components and O&M requirements; Use GIS-based tools for mapping; Assess financial aspects of SWD projects; Gain exposure to smart solutions; Strengthen decision-making abilities	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and storm water management.	Mumbai	MCMCR	3 Days	14th-16th Oct,2026; 01st -03rd March,2027	Advanced
27	SWD/C11	Tendering Process/ Procurement Methods for engaging an Agency.	Understand government procurement principles; Select appropriate procurement methods; Structure and review procurement documents; Apply CVC guidelines; Gain insight into e-procurement platforms; Conduct fair bid evaluation; Make informed procurement decisions	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and storm water management.	Mumbai	MCMCR	3 Days	05th-07th August 2026	Advanced
28	SWD/C12	Design of Storm Water Cess for sustainable storm water management in cities.	To enable the design and implementation of a storm water cess by understanding urban hydrology, policy rationale, and legal frameworks.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and storm water management.	Mumbai	MCMCR	3 Days	16th -18th Dec,2026	Advanced
29	SWD/C13	Training on Provisions of Manual on Storm Water Drainage Systems, 2019	Develop comprehensive understanding of SWD Manual 2019; Strengthen technical capacity in rainfall analysis; Enhance competence in SWD system planning; Familiarize with construction practices; Build understanding of O&M practices; Promote sustainable financial planning	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and storm water management.	Mumbai	MCMCR	3 Days	12th-14th Aug,2026;03-05th March 2027	Advanced

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30	UWM/A6	Sewage Collection network System Maintenance – Techniques for cleaning and maintenance of sewers, pumping machineries and valve operation	Understand sewage collection network components; Safely operate sewer cleaning equipment; Perform routine pump and motor maintenance; Apply correct valve operation procedures; Follow CPHEEO safety practices; Identify and troubleshoot problems; Work effectively in teams	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on used water management.	Mumbai	MCMCR	5 Days	13th -17th July 2026; 08th -12th Feb 2027	Basic
					Chennai	CMWSSB		13th -17th July 2026; 08th -12th Feb 2027	
31	UWM/A8	Sewage and faecal sludge sampling, testing methodology and record keeping	Understand sewage and faecal sludge characteristics; Identify correct sampling methods; Collect and handle samples safely; Perform basic wastewater testing; Follow laboratory safety practices; Maintain accurate records; Link test results with operations	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on used water management.	Mumbai	MCMCR	3 Days	07th -09th Oct 2026; 03rd-05th March 2027	Basic
32	UWM/C38	Preparation of Waste water DPRs including Step-by-Step transition towards circularity along with design and cost estimates	Understand end-to-end wastewater systems; Apply GIS-based tools for planning; Evaluate sewage treatment technologies; Prepare structured wastewater DPRs; Incorporate circular economy concepts; Assess project costs and risks; Review DPRs from technical perspective	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Mumbai	MCMCR	3 Days	12th-14th Aug, 2026; 11th-13th Jan 2027	Advanced
33	WS/B8	Preparation of Water Supply DPRs including Step-by-Step transition of Intermittent water supply to 24x7 along with design and cost estimates	Understand urban water supply system fundamentals; Develop ability to analyze intermittent systems; Gain understanding of metering and NRW assessment; Build capacity to use GIS tools; Acquire DPR preparation skills; Understand approval processes	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Mumbai	MCMCR	3 Days	25th -27th Nov, 2026	Mid level
					Bhopal	AIILSG		April, Oct	
34	WS/C20	BIS Codes and Standards for Materials, Equipments & Processes etc. in Water Supply	Understand BIS framework; Interpret key BIS standards; Appreciate testing philosophy through laboratory exposure; Apply BIS standards in DPR preparation; Integrate drinking water quality standards; Strengthen institutional compliance mechanisms	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Mumbai	MCMCR	3 Days	05th -07th Aug, 2026 ; 11th -13th Jan, 2027	Advanced
35	WS/C21	Tendering Process/ Procurement Methods for engaging an Agency	Understand government procurement principles; Select appropriate procurement methods; Structure and review EOIs, RFPs; Apply CVC guidelines; Gain practical insight into e-procurement platforms; Conduct fair bid evaluation	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Mumbai	MCMCR	3 Days	02nd -04th Sept, 2026; 03rd-05th Feb, 2027	Advanced
					Bhopal	AIILSG		June, Dec	
36	WS/C30	Preparation of Tenders & Contract Management in Water Supply	Understand procurement principles and regulatory frameworks; Prepare comprehensive tender documents; Apply structured evaluation methodologies; Manage contracts effectively during execution; Minimize disputes through proactive contract administration	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply management.	Mumbai	MCMCR	5 Days	06th -10th July 2026, 18th-22nd Jan, 2027	Advanced
37	CB/A1	Climate Change Impacts on Urban Water Supply and Wastewater Management	Understand climate pressures on water systems and how temperature/rainfall variability affects water availability.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water supply and storm water management	Prayagraj	MNNIT	5 Days	25th -29th May, 2026	Basic
38	SWD/A3	Best Practices for Rainwater Harvesting and Urban Drainage	Understand the purpose and benefits of rainwater harvesting and learn simple practices like cleaning collection areas to reduce flooding.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water supply and storm water management.	Prayagraj	MNNIT	5 Days	12th -17th Oct, 2026	Basic

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39	SWD/B4	Project, Planning, Design and Maintenance of Stormwater Drainage Systems	Understand the importance of stormwater systems for flood prevention and identify effective versus faulty drainage through field observation.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and storm water management.	Prayagraj	MNNIT	5 Days	15th-19th June ,2026	Mid level
40	SWD/B7	Integration of Rainwater Harvesting at different scales and Urban Drainage Management including treatment options	Understand core concepts, needs, and benefits of integrating rainwater harvesting with urban drainage.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and storm water management.	Prayagraj	MNNIT	5 Days	17th -21st Nov,2026	Mid level
41	UWM/C26	Application of GIS in Planning and Design of Used Water Management Systems – Mapping and analysis	Understand GIS concepts, spatial data types, and their application in planning, design, and mapping sewer assets.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Prayagraj	MNNIT	5 Days	18th -23rd May,2026	Advanced
					Mumbai	MCMR		6th-10th July 2026,14th - 18th December 2026	
42	UWM/C40	Climate Resilience & Disaster Management and Emergency Response Planning for Water Utilities	Understand climate change drivers for utilities, identify hazards (cyclones, heat stress), and analyze operational/structural impacts.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Prayagraj	MNNIT	5 Days	01st -05th June,2026	Advanced
43	WS/A4	Water Quality Monitoring and Surveillance Systems	Understand links between water quality and public health; identify physical, chemical, and microbiological parameters.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water supply and storm water management.	Prayagraj	MNNIT	5 Days	3rd -7th August ,2026	Basic
					Chennai	CMWSSB		3rd -7th August ,2026;23rd-27th Nov,2026	
44	WS/C27	Urban Water Security & Climate Change Adaptation in Cities	Understand the definition and scope of urban water security and identify drivers of water stress (population, pollution).	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply management.	Prayagraj	MNNIT	5 Days	14th-18th Dec,2026	Advanced
45	SWD/C9	Smart Technologies for Flood Warning and Stormwater Management	Understand flood types/processes, identify flood conditioning factors, and interpret real flood events/management challenges.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and storm water management.	Tiruchirapalli	NIT	5 Days	05th -09th Oct,2026	Advanced
					Mumbai	MCMCR		03rd-07th August 2026,18th-22nd June 2026	
46	SWM/C24	Advanced Waste-to-Energy Technologies and FeasibilityAnalysis– RDF, biogas, pyrolysis, and incineration	Analyse WtE technologies, understand operating principles, suitability for waste streams, and interpret national policies/CPHEEO guidelines.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water and used water management.	Tiruchirapalli	NIT	5 Days	07th-11th Sept,2026	Advanced
					Mumbai	MCMCR		28th Sept- 01st Oct 2026,04th - 08th June 2026	

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47	SWM/C34	Impact monitoring of Landfill/ Dumpsites on Groundwater and Strategies for Pollution Contro	Understand MSW composition, explain functional elements of SWM systems, and select waste-processing technologies for resource recovery.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on Solid waste management.	Tiruchirapalli	NIT	5 Days	01st-05th June,2026	Advanced
48	SWM/C36	Comprehensive solid waste management- Provisions contained in Manual on Solid waste management	Understand SWM significance, analyze institutional governance, and understand how the SWM Manual supports system operations.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on Solid waste management.	Tiruchirapalli	NIT	5 Days	18th -22nd Jan,2026	Advanced
					Mumbai	MCMCR		17th -21st August 2026 ,08th -12th	
49	UWM/C21	Tertiary Treatment of Wastewater – Advanced treatment for reuse and nutrient recovery	Understand wastewater characteristics, classify tertiary technologies, and analyze compliance failures in existing plants.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Tiruchirapalli	NIT	5 Days	16th-20th Nov,2026	Advanced
					Mumbai	MCMCR		17th-21st August 2026,14th-18th Dec 2026	
50	UWM/C30	Co-Composting of sludge with Organic Waste: Processing Technologies – Windrows, Vermicomposting, Aerobic composting	Analyze the role of co-composting in sludge management and evaluate the characteristics of sewage sludge for composting.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on Solid waste management.	Tiruchirapalli	NIT	5 Days	14th -18th Dec,2026	Advanced
51	UWM/C33	Water Reclamation and Circular Economy in Used Water Management- Advanced Technologies for Wastewater Reuse and Recycle	Understand drivers for wastewater reuse, apply circular economy concepts, and interpret regulatory reuse guidelines.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Tiruchirapalli	NIT	5 Days	13th-17th July,2026	Advanced
52	UWM/C37	Manual on Sewerage and Sewage Treatment - Training on various chapters contained in Manual	Understand sewerage system objectives, estimate future population/design periods, and compute sewage flow for domestic and commercial areas.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Tiruchirapalli	NIT	5 Days	24th-28th Aug,2026	Advanced
53	WS/C19	Training on Provisions of Manual on Water Supply and Treatment Systems (Drink from Tap), March 2024	Understand water supply scenarios in India, identify system components, and learn planning principles for "Drink from Tap" systems.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Tiruchirapalli	NIT	5 Days	02nd-06th Nov,2026	Advanced
54	WS/C32	Advancement in Water Treatment Technologies & their application	Identify water quality challenges, assess compliance with standards, and identify limitations in existing Water Treatment Plants (WTPs).	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Tiruchirapalli	NIT	5 Days	15th -19th June 2026	Advanced
55	SWD/A1	Operation and Maintenance of Storm water Drainage Systems	Understand the importance of stormwater management, explain flood control systems, and choose appropriate systems based on suitability.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water supply and used water management.	Mysuru	SJCE	5 Days	08th-12th June,12th-16th Oct,2026	Basic
56	SWM/A10	Disaster Waste Management & Emergency Response – Handling waste post floods, earthquakes, etc.	Understand types of disasters, waste generation patterns, and roles of organizations (NGOs, NDRF, ULBs).	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on Solid waste management.	Mysuru	SJCE	5 Days	04th-08th May, 26th-30th Oct.2026	Basic
57	SWM/B20	Hazardous & E-Waste Management for Urban Local Bodies – Legal framework and best practices.	Identify hazardous waste, explain classification criteria, and describe physicochemical properties and their impacts on human health.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on Solid waste management.	Mysuru	SJCE	5 Days	11th -16th May,09th-14th Nov,2026	Mid level
					Mumbai	MCMCR		07th -11th Sept 2026,22nd-26th Feb 2027	

Sl. No.	COURSE CODE	NAME OF THE REFRESHER COURSE	Objective	Target Participants	PLACE	TRAINING INSTITUTE	DURATION	PROBABLE MONTH	LEVEL OF COURSE
58	UWM/A3	Wastewater Treatment Plant (STP) Operations & Maintenance – Day-to-day O&M tasks for operators, know-how the working of various equipments& their functioning in case of shut down, adoption of standard operating procedure as per the approved plan.	Understand domestic wastewater characteristics, recognize operator roles/responsibilities, and master STP process flow and operational documents.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water supply and used water management.	Mysuru	SJCE	5 Days	18th-22nd May, 16th-20th Nov, 2026	Basic
59	UWM/B11	Advanced techniques for sewer and septic tank cleaning to sewer entry professionals and ERSU	Explain sewer/septic infrastructure, identify cleaning challenges, and handle hazardous materials according to safety and environmental standards.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Mysuru	SJCE	5 Days	15th -19th June, 14th -18th Dec, 2026	Mid level
60	UWM/B17	Preparation of DPR and cost optimization for Used Water Management – Developing project reports for funding and approvals	Understand the importance of water saving and reuse, learn cost optimization methods, and develop project reports for funding and approvals.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Mysuru	SJCE	5 Days	15th-19th July, 02nd -06th Nov, 2026	Mid level
61	UWM/B14	Automation and Application of IoT& SCADA systems in project monitoring including Online Monitoring of STP Effluents using real-time data systems. Instrumentation, Control & SCADA in STPs – Automation and monitoring of STPs	Demonstrate a comprehensive understanding of SCADA system workflows, encompassing data acquisition, supervisory control, and visualization, and analyze IoT system architecture—including edge devices, gateways, cloud platforms, and communication protocols—to evaluate how IoT enables real-time monitoring and remote access.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Mysuru	SJCE	5 Days	06th-10th July, 2026, 07th -11th Dec 2026	Mid-level
62	WS/B7	Energy Efficiency and cost economy in Pumping Systems including Operation & Maintenance of pumps and Pumping machineries	Understand applications of pumping systems; recognize the importance of energy efficiency; identify parameters affecting pump efficiency and system hydraulics.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Mysuru	SJCE	4 Days	22nd -25th June 2026, 21st -24th Dec, 2026	Mid level
					Mumbai	MCMCR		08th-11th Sept 2026 ,02nd -05th Feb 2027	
63	SWM/C25	Climate Change & Circular Economy in Waste Management – Global best practices and policy interventions	To build understanding of climate change linkages with the waste sector, apply GHG accounting methodologies, adopt circular economy frameworks, evaluate climate-smart waste technologies, and align city waste systems with national and global policy frameworks.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on Climate change and circular economy.	Chennai	AU	5 Days	Jun-26	Advanced
64	SWM/C33	Bio-remediation and Bio-mining of Legacy Dumpsites, Control of Landfill Fires and Air Pollution , Best Practices for Dumpsite Closure and Post-Closure Management	To develop expertise in dumpsite assessment, bio-remediation, bio-mining, landfill fire risk control, air pollution mitigation, and scientific closure/post-closure monitoring aligned with climate mitigation and circular resource recovery strategies.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on Solid waste management.	Chennai	AU	5 Days	Sep-26	Advanced
65	SWM/A6	Introduction to Composting Methods – Basics of home and community composting	Understand the importance of composting in municipal solid waste management per SWM Rules. Recognize the hierarchy of the SWM framework and MSW classification. Understand biological, physical, and chemical processes of composting. Identify equipment and pre-processing requirements for mixed MSW. Evaluate various composting technologies (Windrow, Vermi, Aerated Static Pile, etc.) and their suitability for decentralised systems.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on Solid waste management.	Kolkata	IPHE	5 Days	11th -15th May, 02nd -06th Nov 2026	Basic

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66	SWM/B13	Composting and Organic Waste Processing Technologies – Vermicomposting, aerobic composting.	Gain technical knowledge of aerobic composting and vermicomposting processes. Identify equipment and pre-processing requirements for organic waste. Learn to design process flowcharts and manage operation & maintenance of composting plants. Ability to perform socio-environmental suitability analysis for treatment plant locations.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on Solid waste management.	Kolkata	IPHE	5 Days	08th -12th June, 14th-18th Dec 2026	Mid level
					Bhopal	AIILSG		July 2026, Jan 2027	
67	SWM/B17	Decentralized Waste Management Approaches – Case studies on localized waste processing	Understand the importance of composting in municipal solid waste management per SWM Rules. Evaluate decentralized waste management models through case studies and field visits. Develop city-level composting plans and conduct gap analysis of SWM practices.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on Solid waste management.	Kolkata	IPHE	5 Days	20th-24th July 2026, 04th - 08th Jan 2027	Mid level
68	UWM/B9	Decentralized Wastewater Treatment & Management – Community-based solutions and small-scale STPs	To understand sector-specific project characteristics, institutional roles, and project lifecycles; to design optimum staffing models and structured training frameworks.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Kolkata	IPHE	5 Days	18th-22nd May 2026, 16th-20th Nov 2026	Mid level
69	WS/B9	Advanced Water Treatment Technologies and their Application including Treatment and removal of Heavy Metals like Arsenic, Iron & Fluoride etc.	Analyze the operating principles, efficiency, and limitations of advanced water treatment technologies, including adsorption (activated alumina, iron-based media), high-pressure membrane processes (reverse osmosis, nanofiltration), and advanced oxidation processes (AOPs). Interpret analytical results and identify breakthrough points in adsorption beds or fouling	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Kolkata	IPHE	5 Days	06th -10th July 2026, 18th-22nd Jan 2027	Mid level
70	UWM/C20	PPP in Wastewater Management – Tertiary treatment, Industrial use and Public-private partnership approaches for wastewater reuse	To understand PPP concepts, identify common models (BOT, HAM, etc.), and develop frameworks for risk matrix preparation and revenue model structuring.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Nagpur	VNIT	5 Days	06th -10th July 2026	Advanced
71	UWM/C41	Optimum Staffing/Institutional Setup for efficient Project Management & Plan for periodic training/skilling	To understand sector-specific project characteristics, institutional roles, and project lifecycles; to design optimum staffing models and structured training frameworks.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Nagpur	VNIT	5 Days	15th-19th Feb 2027	Advanced
72	WS/C24	Selection of appropriate WTP Technology as well as pipe selection for water distribution network for Different Indian Cities – Life cycle costing models.	To enable decision-making on WTP technologies specific to water sources/city constraints; to select pipe materials balancing performance and cost using Life Cycle Costing (LCC) models.	Group A Officers, EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Nagpur	VNIT	5 Days	22nd-26th Feb, 2027	Advanced
73	SWM/B11	Segregated Waste Collection, Transportation, and Fleet Management – Efficient logistics and monitoring	To build capacity in planning and managing segregated waste collection, transportation logistics, and fleet operations for efficient and sustainable solid waste management.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on Solid waste management.	Jaipur	RILSG	5 Days	April, Oct	Mid level
					Mumbai	MCMCR		06th -10th July ,18th - 22nd Jan	
					Bhopal	AIILSG		April, Oct 2026	
74	SWM/B19	Management of Sanitary and Special Care Waste	To strengthen institutional capacity to manage sanitary and special care waste in a safe and systematic manner, emphasizing worker safety, dignity, and compliance with SWM Rules 2016.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on Solid waste and sanitary waste management.	Jaipur	RILSG	3 Days	April, Oct	Mid level
75	SWM/B21	Financial Planning & Cost Recovery Models in SWM – Budgeting, taxation, and revenue generation.	To strengthen the financial and managerial capacity of officials by providing practical tools for budgeting, cost recovery, and revenue generation in solid waste management.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on Solid waste management.	Jaipur	RILSG	3 Days	May, Nov	Mid level

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76	SWM/C27	Public-Private Partnership (PPP) Models in SWM – Structuring contracts for waste management	To strengthen institutional capacity within Urban Local Bodies to plan, procure, and manage PPP-based SWM projects in a transparent, accountable, and sustainable manner.	Officials and decision-makers involved in solid waste management procurement and contract structuring focussing especially on water supply and used water management.	Jaipur	RILSG	3 Days	June, Dec	Advanced
77	WS/A1	Basics of Special Appurtenances in water supply system - Meters, valves, Pipes & Conduits, Plumbing, Jointing Techniques, Installation & Maintenance	To provide a comprehensive understanding of advanced construction technologies for water distribution systems, focusing on modern materials, innovative construction methods, quality control, safety, and sustainability.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water supply and used water management.	Jaipur	RILSG	5 Days	May, Nov	Basic
78	WS/A2	Use of Trenchless Technology in laying of Water Distribution Network including identification of potential stretches for use of Trenchless methods	To strengthen institutional and technical capacity to plan, execute, and supervise trenchless works, providing a practical understanding of various trenchless methods and their applicability.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water supply and used water management.	Jaipur	RILSG	3 Days	June, Dec	Basic
79	WS/A3	Water Disinfection, Chlorination Practices including Safe Handling of Hazardous Chemicals & Use of Chlorinators	To understand disinfection principles, microbiology, and chlorination methods; to safely handle hazardous chemicals and monitor residual chlorine.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water supply and used water management.	Jaipur	RILSG	3 Days	July, Jan	Basic
80	WS/A6	Personal Protective Equipment (PPE) for Water Utility Staff and Work Site Safety including Emergency Response in Water Supply,	To understand safety challenges, select appropriate PPE, and implement safe work practices/emergency response at WTPs and construction sites.	Field operators, technicians, Group C employees and Jr. Engineers etc focussing especially on water supply and used water management.	Jaipur	RILSG	3 Days	July, Jan	Basic
81	WS/B10	Automation and Application of IoT & SCADA systems in Water Treatment & Distribution	To understand automation drivers, SCADA architecture, and IoT applications to enhance operational efficiency and data-driven decision-making.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Jaipur	RILSG	3 Days	Aug, Feb	Mid level
82	WS/B11	Advanced Construction Technology for water distribution system	To understand WDS components, identify construction failures, and apply modern technologies like trenchless methods and advanced jointing.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Jaipur	RILSG	5 Days	Aug, Feb	Mid level
83	SWM/B14	Solid Waste Management Rules 2016 & Latest Amendments – Legal responsibilities of ULBs	Understand the evolution of solid waste management policy in India and the need for the SWM Rules 2016. Explain the constitutional basis for ULB responsibilities in solid waste management under the 74th Constitutional Amendment and 12th Schedule. Identify and describe the classification of waste under SWM Rules 2016, including the 3-bin segregation system.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on Solid waste management.	Durgapur	NIT	2 Days	06th-10th July, 2026	Mid-level
					Bhopal	AIILSG		June, Dec 2026	
84	SWM/B16	Monitoring & Data Collection in SWM Operations – Use of GIS, GPS, and digital tools	Understand the importance of monitoring solid waste management operations and the role of GIS and GPS. Identify and collect key GIS and GPS data, including bin locations, collection routes, and vehicle tracks. Create, manage, and visualize spatial data using basic GIS tools and analyse data.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on Solid waste management.	Durgapur	NIT	2 Days	06th-10th July, 2026	Mid-level
85	SWM/B18	Sanitary Landfill Design & Operations – Engineering principles of landfill management.	Explain the engineering importance and regulatory framework governing sanitary landfill design in India, the United States, and the European Union. Apply site selection criteria including geological, hydrological, and land use considerations to evaluate candidate landfill sites. Design liner system components — compacted clay liners, HDPE geomembranes, geosynthetic clay liners — and estimate leakage rates through composite liner systems.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on solid and sanitary waste management.	Durgapur	NIT	2 Days	06th-10th July, 2026	Mid-level
					Bhopal	AIILSG		June, Dec 2026	

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86	UWM/B10	Sewage Treatment Technologies & Wastewater Management –ASP, MBBR, SBR, MBR and other processes.	Understand the fundamentals, components and challenges of used Sewage treatment, key principles components and design considerations including focus on various treatment modules.	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management.	Durgapur	NIT	5 Days	13th -15th July,2026	Mid-level
					Chennai	CMWSSB		13th -15th July,2026 ; 01st-09th Feb,2027	
87	UWM/B15	Sludge Composting and Anaerobic Digestion – Best practices and case studies	Understand sludge characteristics, sources, and stabilization requirements, Differentiate between composting and anaerobic digestion processes Analyze key process parameters influencing treatment efficiency Evaluate environmental impacts and regulatory compliance Design basic sludge treatment systems and estimate resource recovery potential Apply decision-making frameworks using real-world case studies	Group B Officers , AE's and AEE's, Urban planners etc focussing especially on water supply and used water management and reuse	Durgapur	NIT	5 Days	13th -15th July,2026	Mid-level
88	UWM/C29	Wastewater Treatment Process Design, Hydraulics, and Cost Estimation – Engineering calculations	To learn about processes used in wastewater treatment plan and design. Further the hydraulics of the treatment process is discussed so that the maximum gravity flow with minimum pumping for the treatment process is ensured. Toward end the cost estimation including detailed financial evaluation of wastewater treatment infrastructure is planned using the "engineering method". Below brief contents of all the section with objectives are described.	Group A Officers , EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Durgapur	NIT	2 Days	16th -18th July,2026	Advanced
89	UWM/C23	Selection of appropriate STP Technology as well as pipe selection for sewer network for Different Indian Cities – Life cycle costing & reuse models	To Gain knowledge about STP technologies, analysis of pipes, LCCA of pipe networks, Use modern tools/software for analysis and Design the pipe for STP	Group A Officers , EE's, CE's , Urban Managers and Policy makers etc focussing especially on water supply and used water management.	Durgapur	NIT	2 Days	16th -18th July,2026	Advanced

	Abbreviations of Institutes:	
1	AIILSG	All India Institute of Local Self Government (AIILSG), Mumbai
2	ASCI	Administrative Staff College of India, Hyderabad
3	CES, AU	Centre for Environmental Studies, Anna University, Chennai
4	CET	College of Engineering Trivandrum, Thiruvananthapuram
5	MANIT	Maulana Azad National Institute of Technology Bhopal
6	MCMCR	MCGM Centre for Municipal Capacity Building & Research (MCMCR), Mumbai
7	MNNIT	Motilal Nehru National Institute of Technology, Allahabad
8	NIT	National Institute of Technology- Tiruchirappalli, Durgapur, Meghalaya
9	SJCE	Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysuru
10	IPHE	Institution of Public Health Engineers, Kolkata
11	VNIT	Visvesvaraya National Institute of Technology, Nagpur
12	RILSG	Rajasthan Institute of Local Self Government, Jaipur
13	CMWSSB	Chennai Metropolitan Water Supply and Sewerage Board, Chennai
14	IIT	Indian Institute of Technology- Roorkee, Roorkee, Madras, Bhubaneswar

Annexure

Refresher Course under PHE Sector Development Scheme CPHEEO

PROFORMA OF NOMINATING CANDIDATES FOR REFRESHER COURSES

Name & Address of Nominating Authority:

Telephone Nos :

Email ID:

Sl. No.	Name of the Course & Institute	Name, Address & Designation of the officer	Contact Details (Telephone/ Mobile No. & Email ID

(Signature of Nominating Authority with Seal)

Date:

Place: