

Nomination Form

Certificate Course on Soil and Water Conservation and Watershed Management

1.	Name of candidate				
2.	Designation				
3.	Gazetted or non-Gazetted				
4.	Date of birth	Year	Month	Day	
5.	Age and Sex	Year	Months	Male/Female	
6.	Official address of candidates				
7.	Telegraphic address of candidate and email id				
8.	Telephone no. of candidate				
	Official				
	Residence				
	Mobile				
9.	Educational qualifications				
	Degree / Diploma /Certificate	Subjects	Division/Class	Univ./Board	Year of Passing
	Ph.D.				
	Master degree				
	Bachelors Degree				
	Diploma(duration in year)				
	Certificate Course(duration in year)				
	Matriculation/School Leaving certificate/ Higher secondary/P.U.C.				

Please strike-off whichever is not applicable

10.	Experience		
	Department	Post(s) held	Period (Years)
	Soil Conservation		
	Forest		
	Agriculture		
	Any other		
11.	Sponsoring Department:(In block letters)		
12.	Availability of CL and RH in his/her account	CL.....for the year.....	RH.....for the year.....
13.	Sponsoring Authority and address		
	Telephone Nos.	Office	Residence
	Telegraphic address/email id		
	Signature of candidate		
	Signature of sponsoring authority and name in capitals		

OFFICIAL SEAL

Other Details of Training Programme and its Requirements

Four-month Certificate Course on Soil and Water Conservation and Watershed Management

1. Location	Central Soil and Water Conservation Research and Training Institute, 218, Kaulagarh Road, Dehradun - 248 195 (Uttarakhand)
2. Duration	04 months (October to February and April to August)
3. Qualification	Essential: (a) Graduate in agriculture and allied sciences/agriculture engineering/bio-sciences/environmental science, etc. Desirable: Working in soil and water conservation programme or likely to be posted in it.
4. Maximum age limit (as on the date of commencement of the course)	Below 45 years
5. Training Fee	
a) Tuition fee b) Study tour c) Books and stationery d) Accommodation, etc.	₹ 30,000/- (Rupees Thirty thousand only)
6. Boarding and miscellaneous	Boarding and other incidental expenditure will be met by the Trainees themselves
7. Last date for receipt of nomination	Sept. 10 for October to February batch; March 10 for April to August batch
8. Report for personality development	Officer nominated should come prepared with about 4 pages note regarding his place of work, problems of soil erosion in the area/state, measures being taken up to overcome the problems and relevant information supported by data for presentation.



For further details, please contact:

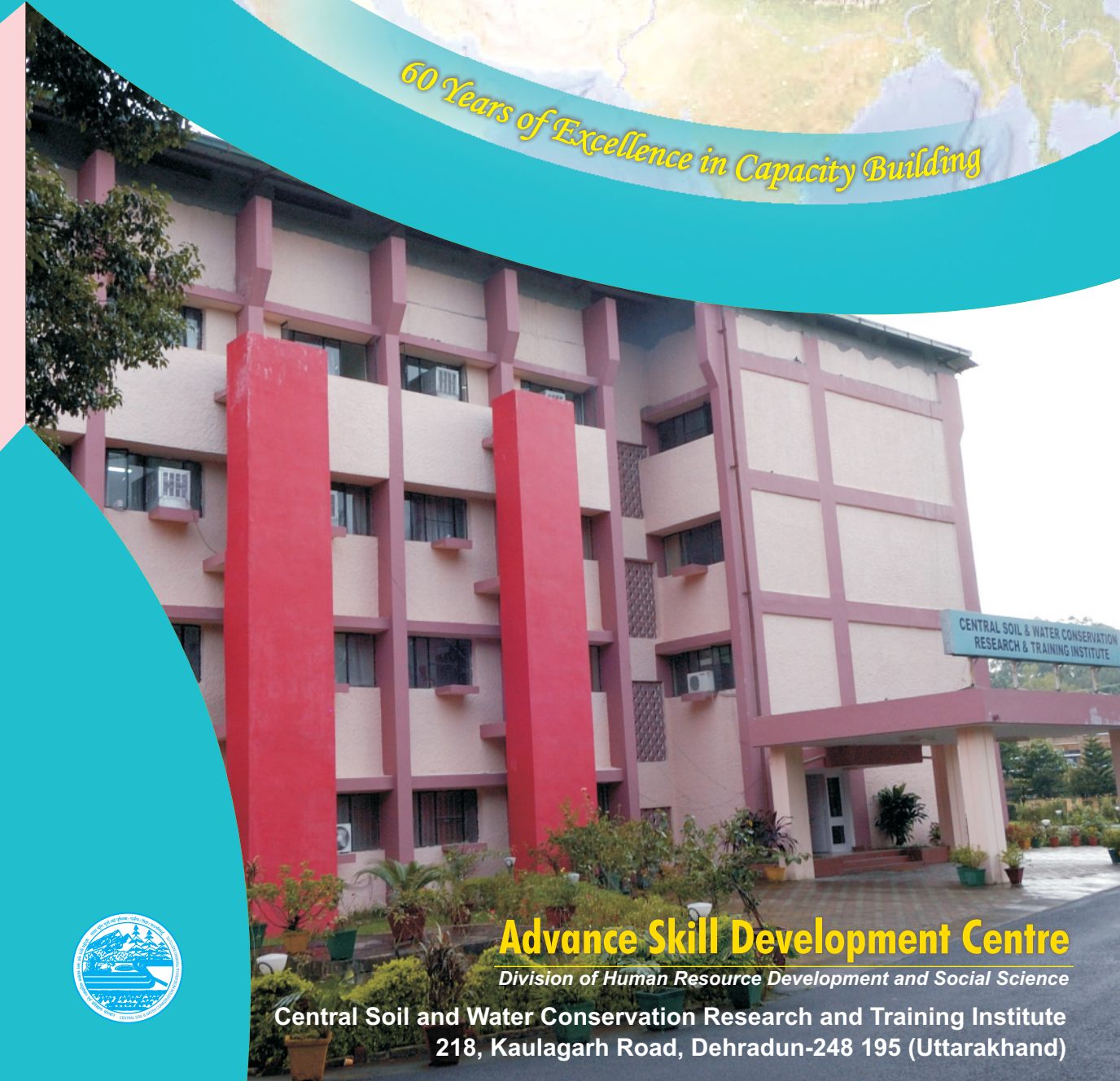
Director

Central Soil and Water Conservation Research and Training Institute
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Four Month Certificate Course on Soil and Water Conservation and Watershed Management

60 Years of Excellence in Capacity Building



Advance Skill Development Centre

Division of Human Resource Development and Social Science

Central Soil and Water Conservation Research and Training Institute
218, Kaulagarh Road, Dehradun-248 195 (Uttarakhand)

The challenge of realizing two divergent objectives of meeting the food demand of any country's ever growing population on one hand, and sustaining its limited and non-renewable natural resources for future generations on the other is growing steadily over the years. Under changing climate scenario, sustainability of land and other natural resources is under serious threat due to several degrading factors. Among the negative impacts of soil erosion by water, loss in crop productivity, disruption of nutrient cycle, alteration in water and energy balances, pollution of water bodies, deterioration in water quality, reduction of reservoir capacity, loss of biodiversity, and natural disasters like floods and droughts have a strong bearing on food and environmental security. Therefore, soil erosion by water is accepted as the most serious form of land degradation all over the world. Notwithstanding the success achieved on food front in many developing countries during the last few decades, the complex problems of food security, poverty, equity and sustainability of resources need to be suitably addressed by different stakeholders in the current century. Natural resource management on watershed basis requires a multi-disciplinary approach involving engineering, forestry, soil science, agronomy, animal sciences and socio-economics. Multi-disciplinary trained manpower is very essential to execute massive watershed programmes in the developing countries. Besides, it requires capacity building in respect of trained manpower with updated skills.

Central Soil and Water Conservation Research and Training Institute (CSWCRTI) is a unique kind of institution and engaged not only in Research and Extension in the field of soil and water conservation and watershed management but also in Human Resource Development of different stakeholders through capacity building and skill development programmes by well trained and multi-disciplinary team of Scientists and Technicians. The institute conducts its regular training programme every year at the national level for officials from different government departments and other agencies. Also, need based capacity building and skill development have been addressed through organizing numerous short term training programmes (tailor made short courses) as and when required by different agencies engaged in natural resource management.



The Genesis of the Course

A chain of Soil Conservation, Research, Demonstration and Training Centres were established at various places in India during the period of first and second five year plans (1954-1957) by Government of India. For developing skilled man power in the country in the field of soil and water conservation, the regular training programmes of 12 months duration were conducted during 1956-57. Subsequently the duration

of each batch was kept as 9 months during 1958-60. On demands from the stakeholders, again the duration of each batch was reduced to 5½ months during 1960 and it was continued till 2012. All together, this Institute had organized a total of 108 batches of regular training programmes at Dehradun in soil and water conservation and watershed management for Officials from different state line departments engaged in natural resource management in India and abroad. Till October 2012, a total of 2717 gazetted officers and 5538 assistants have been trained including 41 foreign participants mostly representing African and Asian countries.



Based on the feedback received from the participants of earlier batches and realizing technological advancement and changes in capacity building approaches including introduction of new science tools, CSWCRTI felt that the present module of regular training needs to be critically appraised, modified and updated. Keeping this in view, a National Consultation Workshop was organized during Feb. 1-2, 2013 to review and update the existing modules besides discussing on the establishment of Advance Skill Development Centre - A Centre of Excellence in Soil and Water Conservation at this Institute. The workshop focused on redesigning the capacity building programmes for soil and water conservation in India. The workshop was attended by various state and central government stakeholders including eminent policy planners, researchers, trainers and field functionaries. They were represented by National Rainfed Area Authority (NRAA), Planning Commission, Govt. of India (GoI), Department of Agriculture and Cooperation, Ministry of Agriculture, GoI, Indian Institute of Remote Sensing (IIRS), Dehradun, Department of Agriculture, Soil Conservation and Directorates of Watershed Management of state governments of different states and Indian Council of Agricultural Research.

Major Recommendations of the National Consultation Workshop

- The Regular Training will henceforth be four months in duration.
- The Regular Training will be titled "Certificate Course on Soil and Water Conservation and Watershed Management".
- The training programme will be open to all stakeholders engaged in Natural Resource Management specific to soil and water conservation and watershed management.
- The course fee of the four-month training will be ₹ 30,000/- (Rupees Thirty thousand only) per trainee excluding TA/DA, boarding and other incidental charges.
- Advanced Skill Development Centre for Soil and Water Conservation will be established at CSWCRTI, Dehradun and its Regional Research Centres.

Based on the presentation and discussion held in the above said National Consultation Workshop and its recommendations, regular training programme of CSWCRTI was restructured and redesigned. Further it has been accepted by different state line departments engaged in Natural Resource Management in India and approved by the Indian Council of Agricultural Research.

This training programme will be conducted twice a year at CSWCRTI, Dehradun. This course comprise of five modules covering five basic disciplines viz., Agricultural Engineering, Soil Science, Agronomy, Forestry and Socio-Economics. Details of this programme are given in the following tables.

Brief on the Modules of Four-Month Regular Training

S. No.	Training Module	Duration
Module 1 Course content	Soil and Water Conservation Engineering Soil and Water Conservation in India, Hydrometry, Survey and Mapping, Advanced Tools and Techniques, Erosion Control Measures for Arable and Non-arable Lands, Torrent Control and Streambed Stabilization, Water Harvesting and Recycling, Micro-irrigation, Groundwater Recharge, Water Budgeting, Water Quality, Estimate and Cost of Mechanical Measures, Monitoring of Hydrological Parameters and Hands on Exercises and Field Practical, etc.	04 weeks
Module 2 Course content	Soil Management for Controlling Land Degradation Introduction to Soils, Land Degradation, Problem Soils, Land Classification and Land Use Planning, Soil Health Assessment and Management, Soil Sustainability and Climate change and Hands-on Exercise and Field Practical, etc.	03 weeks
Module 3 Course content	Conservation Forestry National Forest Policy, Forest and Environment, Forest Management, Regeneration and Afforestation, Non-Timber Forest Products, Biological Measures for Soil and Water Conservation, Agroforestry and Pasture Development, Management for Soil and Water Conservation, Conservation Horticulture, Watershed Management for Non-Arable Lands and Hands on Exercises and Field Practical, etc.	03 weeks
Module 4 Course content	Conservation Agronomy Crop Classification for Resource Conservation, Tillage and Tilth, Agronomic Practices in Erosion Control, Management Practices for Crop Production, Resource Conservation Technologies and Conservation Agriculture, Climate Smart Agronomy and Hands on Exercises and Field Practical, etc.	03 weeks
Module 5 Course content	Integrated Watershed Management: Guidelines and Processes People's Participation, Participatory Rural Appraisal, Community Organization, Participatory Planning, Conflict Management, Benefit Sharing, Monitoring and Evaluation, Post Project Maintenance, Extension Management, Personality Development, Livelihood Options, Livestock Production and Management, Gender Mainstreaming, Watershed Guidelines and Hands on Exercises and Field Practical, etc.	03 weeks

Module-wise Break up of Lectures and Practical (days)

Module	Lectures (h)	Lectures (days)	Practical (days)
1. Soil and Water Conservation Engineering	72	18	10
2. Soil Management for Controlling Land Degradation	44	11	07
3. Conservation Forestry	44	11	07
4. Conservation Agronomy	32	08	03
5. Integrated Watershed Management - Guidelines and Processes	20	05	04
6. Study Tour			06
7. Local project exercise & DPR Preparation			10
Total	212	53	47