

DEVELOPMENT OF NBC (NATIONAL BUILDING CODE) TRAINING MANUAL AND TRAINING Program Highlights

Period: December 2021 to August 2022
Data Source @NSET | MEL
@TAYAR Program Team

The implementation of building codes in all municipalities of Nepal is a prime need to promote safer construction for resilient communities. The implementation of building code essentially requires planning, building design and construction complies with the NBC. The building design and construction compliance needs to be checked for architectural, structural, electrical, sanitary and geotechnical aspects. With rapid urbanization leading to growing demand of building construction, there is a challenge of limited manpower and technical capacity in municipalities. Another challenge is the understanding and implementation of the revised NBCs. Revision of NBC is a continuous process. Whenever the NBC are revised and legally enforced, the designs need to be revised based on the updated codes.

Municipal Engineers needs to be capable of checking such design done using revised code. Based on this capacity gap and need, Tayar Nepal has included in year 2 work plan to build the capacity of municipal engineers and technicians on national building code implementation through the development of **National Building Code (NBC) Training Manual** for and Conducting NBC Training to Engineers from Tayar Nepal's 16 working municipalities: Bhimeshwor, Jiri, Neelakantha, Gorkha, Dullu, Chamunda Bindrasaini, Birendranagar, Gurbhakot, Tulsipur, Ghorahi, Rajapur, Madhuwan, Lamkichuha, Tikapur, Godawari and Krishnapur.

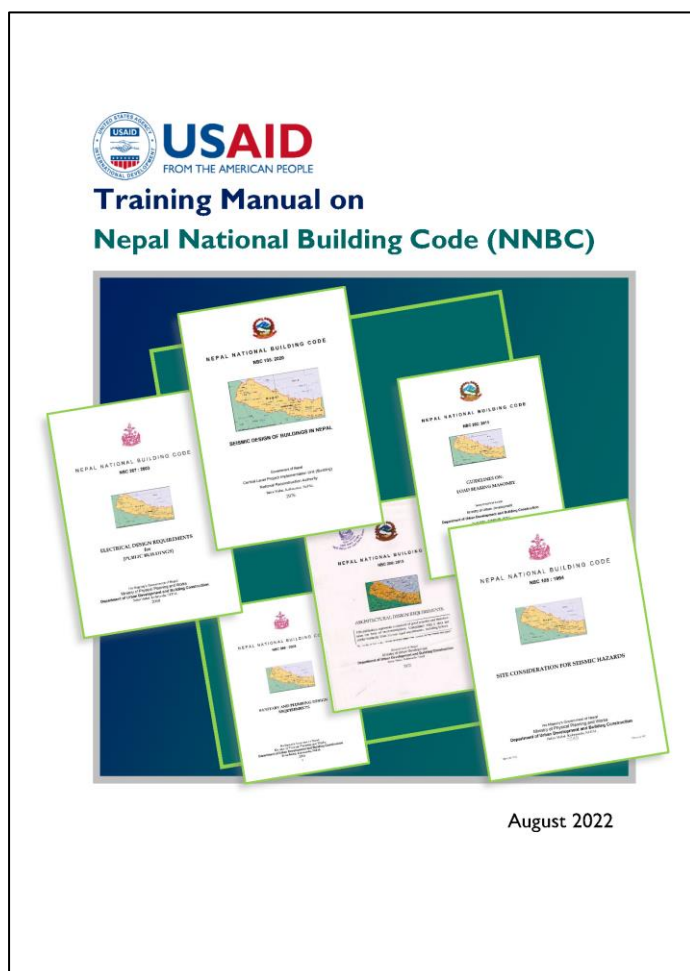


Key Stakeholders

DUDBC and 16 municipalities

Program Coverage Area

16 Municipalities



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Activities conducted

- **Develop NBC training manual and curricula:**

Under the continuous guidance, support, review and feedback from DUDBC, NBC Training manual and curricula containing the structural, geotechnical, electrical, sanitary and plumbing and architectural parts of NNBC has been developed. Thorough review of all 23 volumes of NNBC and relevant existing documents; and Need assessment of NNBC was also done with the stakeholders such as government organizations, municipalities and organizations working in similar projects before development of this manual.

- **Conduct NNBC Training manual and curricula sharing and validation workshop:**

A half day long NNBC Training manual sharing, and Validation workshop was conducted on 16 June 2022 at Hotel Greenwich Village, Kuponhole height, Lalitpur to share the developed NNBC training manual and curricula to all stakeholders and to validate it. Altogether 40 professionals from DUDBC; Tayar Nepal; NSET; MoFAGA; Lalitpur Metropolitan City; Kageswori Manohara Municipality; 7 Tayar Nepal's Core municipalities: Bhimeshwor Municipality, Neelakantha Municipality, Birendranagar Municipality, Dullu Municipality, Tulsipur Sub metropolitan City, Rajapur Municipality, Lamkichuha Municipality; Nepal Engineering Council (NEC), Nepal Engineers' Association (NEA), Structural Engineer's Association-Nepal (SEANep), Society of Consulting Architectural and Engineering Firms (SCAEF), Society of Nepalese Architects (SONA), (Japan International Cooperation Agency) JICA Nepal, United Nations Development Programme (UNDP Nepal), Foreign, Commonwealth and Development Office (FCDO) attended the workshop and provided their valuable feedback. Those feedback were incorporated and helped in making the training manual more effective.

- **Conduct series of FIVE nos. of Training on NNBC for Municipal Engineers and Technicians:**

To enhance the capacity in checking and verifying the design, drawing and monitor construction works as per updated NBC requirements, Five numbers of 5 days Training on NNBC was conducted for engineers and technical people of 16 Tayar Nepal's municipalities: Bhimeshwor, Jiri, Neelakantha, Gorkha, Dullu, Chamunda Bindrasaini, Birendranagar, Gurbhakot, Tulsipur, Ghorahi, Rajapur, Madhuwan, Lamkichuha, Tikapur, Godawari and Krishnapur. The first training was conducted as a pilot training to collect the feedback from the municipal engineers and technicians which was then incorporated in the draft training manual to make it more effective. The detail of trainings is as follows:

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Program Highlights



16 Engineers/Technicians trained on Nepal National Building Code (NNBC) in 1st Training.

87%



13%



15 Engineers/ Technicians trained on Nepal National Building Code (NNBC) in 2nd Training.

93%



7 %



25 Engineers/ Technicians trained on Nepal National Building Code (NNBC) in 3rd Training.

88%



12%



21 Engineers/ Technicians trained on Nepal National Building Code (NNBC) in 4th Training.

90%



10%



28 Engineers/ Technicians trained on Nepal National Building Code (NNBC) in 5th Training.

79%



21 %



105 Engineers/Technicians trained on Nepal National Building Code (NNBC) through 5 events.

87%



13%

Total 105 participants attended the NNBC Trainings. All trainings were very much appreciated by the participants. They found them very useful and relevant in enhancing their capacity in building permit process and committed to use the knowledge gained from the training in their municipalities to ensure the safer building construction.

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Photographs

- The training is 5 days long with equal proportion of theory and practical sessions (Exercises, presentations, Field visit, discussions)
- The training consists of structural, geotechnical, electrical, sanitary and plumbing and architectural parts of NNBC and the checklist to assist the building permit process

Development of Nnbc Training Manual



Consultative meeting with Mr. Rishi Raj Acharya, Under Secretary, MOFAGA for need and gap assessment of NBC



NNBC Training curricula feedback discussion meeting at DUDBC among technical team of DUDBC and NSET; and Tayar Nepal

NNBC Training Manual and Curricula Sharing and Validation Workshop



Closing remark of Inauguration program by Mr. Ram Chandra Dangal, Director General (DG) of DUDBC



Group Work on feedback collection

5 NNBC Trainings



Exercise and presentation by participants



Site visit



Group Picture