

LCCR Training Module Guide

For Building Professionals

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About the Training Kit

The movement towards a Low Carbon, Climate Resilient (LCCR) development pathway is dependent on creating an enabling environment focusing on three key factors :

- Knowledge - building a technology base,
- Policy - strengthening the institutional framework and
- Finance - devising innovative mechanisms.

While the Government of India has recognised the need for action in this sector, there is a lack of attention towards the 70 million (population) strong rural spaces and small towns which are emerging as areas of high growth. This training kit aims to bridge this gap by generating knowledge support for LCCR solutions for small towns and rural spaces to build capacity for Building Professionals.

The Building Professional Workshop on Low Carbon Construction has been planned as a two day exercise to orient building professionals towards using low carbon construction concepts while designing buildings. The training module guide is designed for trainers only. The training kit comprises of documentation which is needed to implement the workshop for policy makers.

It consists of the following components :

- Training Module Guide
- Agenda of the workshop
- Background reading for specific region
- Presentations
- Case Study posters
- Site Visit handout
- Group work Guidelines

Training Plan

Day 1		7 hours
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Error! Reference source not found.		1.5 hour
Error! Reference source not found.		60 mins.
Error! Reference source not found.		20 mins.
Error! Reference source not found.		3.5 hours
Site Visit Introduction		10 mins.
Site Visit		160 mins.
Experience Sharing		30 mins.
Day 2		6.5 hours
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Error! Reference source not found. : Case Studies		30 mins.
Policy linkages		40 mins.
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Group Work Introduction		10 mins.
Group Work Exercise		290 mins.
Group Work Presentation		60 mins.
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Introduction

Objective:

- To introduce the training program and provide a context for the sessions
- To familiarise the participants with each other

Key Points to be emphasized during the session:

- Key objectives of the training program
- Participants to state their expectations of the training

Duration: 30 minutes

Methodology:

- Presentation accompanied by visual aid

Material required:

- MS-Powerpoint PPT file titled "Introduction"
- Projector and Laser Pointer

Session 1: Global Scenario

The Challenge

Objective:

- To orient participants towards the dynamics of climate change and the building sector
- To highlight the current situation of construction in the area

Key Points to be emphasized during the session:

- The connect between climate change and construction practices
- Climate threats in the region and the requisite resistance of buildings
- Consumption of natural resources by the construction sector
- Conventional building practice

Duration : 30 minutes

Methodology:

- Presentation by Resource person accompanied by visual aid

Material required:

- MS-Powerpoint PPT file titled "Session 1 PPT 1 "
- Handouts of presentation

- Background reading material
- Projector and Laser Pointer

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Objective:

- To introduce concepts of energy assessment and tools

Key Points to be emphasized during the session:

- Energy implication of construction and associated emissions
- Assessment and analysis of energy and emissions for construction

Duration : 60 minutes

Methodology:

- Presentation by Resource person accompanied by visual aid (30 mins)
- Moderated discussion among participants (30 mins)

Material Required:

- MS-Powerpoint PPT file titled “Session 1 PPT 2”
- Handouts of presentation
- Background reading material
- Projector and Laser Pointer
- Brown Paper
- Moderation Cards

Session 2: Strategy for Change

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Objective:

- To orient the participants towards LCCR strategies for the construction sector

Key Points to be emphasized during the session:

- Passive design potential for buildings to reduce energy consumption of buildings
- Potential of waste utilization in construction sector
- Reducing carbon footprint of construction through alternative materials

Duration : 60 minutes

Methodology:

- Presentation by Resource person accompanied by visual aid (30 mins.)

- Moderated discussion among participants(30 mins)
- Guided walk through case study posters followed by One to one Question-Answer Session

Material Required:

- MS-Powerpoint PPT file titled “Session 2 PPT 1”
- Handouts of presentation
- Background reading material
- Projector and Laser Pointer
- Brown Paper
- Moderation Cards
- Posters displaying case studies

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Objective:

- To introduce participants to LCCR principles and their application in design

Duration : 20 minutes

Methodology :

- Presentation by Resource person accompanied by visual aid (20 mins.)

Key Points to be emphasized during the session:

- Alternate Technologies available in the region
- Carbon and climate benefits of the technologies
- New technologies suitable for the region

Material Required:

- MS-Powerpoint PPT file titled “Session 2 PPT 2”
- Handouts of presentation
- Background reading material
- Projector and Laser Pointer

Policy linkages

Objective:

- To orient participants to existing policies which have implication for the construction sector and identify possible action points for LCCR construction.

Key Points to be emphasized during the session:

- National policies and plans related to climate change and habitat
- Opportunities and Threats in existing policies
- State level policies and programs to leverage for LCCR construction

Duration: 40 minutes

Methodology:

- Presentation by Resource person accompanied by visual aid (20 mins.)
- Moderated discussion among participants(20 mins)

Material Required:

- MS-Powerpoint PPT file titled “Session 2 PPT 3”
- Handouts of presentation
- Background reading material
- Projector and Laser Pointer
- Brown Paper
- Moderation Cards

Site Visits

Learning Objective:

- To familiarise participants to application of LCCR principles in design

Key Points to be emphasized during the session:

- Climate responsive design features
- Low carbon design features

Duration: 3.5 hours

Methodology:

- Visit to 1-2 sites
- Detailed discussion on each site

Material Required:

- Leaflet explaining salient features

Recap

Learning Objective:

- To refresh the previous day's sessions

Key Points to be emphasized during the session:

- Summary
- Key lessons learnt

Duration: 15 minutes

Methodology:

- Presentation by participant accompanied by visual aid (min)

Material Required:

- MS-Powerpoint PPT file titled “Recap”
- Projector and Laser Pointer

Session 3: Application

Group Work

Objective:

- To orient participants on using LCCR principles in design

Key Points to be emphasized during the session:

- Application of LCCR principles in design and planning

Duration: 6 hours

Methodology:

- Divide participants into groups of 5-6 participants
- Handout group work instructions to each group and explain in detail about the intended methodology of group work and the expected outcomes
- Discussion among groups with each group at separate locations for independent working. Each group should appoint a moderator and a rapporteur who will present the group work to the larger group. Constant monitoring of the group-work to clarify any doubts or conflicts and to ensure that discussion remains on the right track
- Presentation from each group using methods of their choice.
- Feedback on each presentation in plenary and discussion with larger group

Material Required:

- Group work guidelines
- Input presentations / materials
- Brown paper boards
- Moderations Cards
- Flip Charts

Valedictory

Objective:

- To share the discussion and lessons of the workshop with a larger group including policy makers
- To agree on a future course of action, following from the workshop

Key Points to be emphasized during the session:

- Context for organizing the workshop
- Guidelines and recommendations from the workshop
- Vote of thanks

Duration: 30 minutes

Methodology:

- Presentation to capture the recommendations from the group work
- Address by the Chief Guest
- Question and Answer session
- Identifying the way forward

Material Required:

- MS-Powerpoint PPT file summarizing the workshop
- Tokens of appreciation for dignitaries
- Projector and Laser Pointer