

Salient Features of the Masons Training program

It is an advanced level construction training for skilled masons and fitters. Various medium of communications like chart, slides, power point presentations and Audio-visual Medias like films will be used to communicate the message and refine the skill. The training will be conducted in the local language.

- Major components addressed during the training program in two days are as below :
 - Understanding of the Earthquake and Seismicity of Gujarat and why it occurs. Also various myths about the same were addressed. Also discussions on why buildings fall in earthquake were done.
 - Site Selection criteria
 - Various building layouts and its susceptibility to the earthquake.
 - Understanding of drawings (plan and elevations)
 - Line out methodologies
 - Excavation and points to remember while excavation. How to decide excavation depths and criteria for the same were equally discussed.
 - Easy methods of Ground Improvement.
 - Foundation concrete methodology
 - Masonry in foundation using brick or stone.
 - Field test of brick quality.
 - Principles of Masonry construction
 - Importance of corner joinery in masonry and methods of leaving cold joints.
 - Common mistakes and consequences
 - Special precautions like corner reinforcement, openings, etc. – why they are defined and what's their importance
 - Importance of bands at various levels with reinforcement detail and concreting.
 - Concrete as a material and importance of cement, steel, aggregate sand and water was discussed in detail. Special emphasis on the water content in concrete and importance of curing.
 - Precautions to be taken while laying RCC slab or Sloping roof. Also methodologies to do so will be discussed along with questions of selection of climatically appropriate option.
 - Flooring systems will be discussed and explained in brief.

During discussion, it would be ensured that technicality and motivational component to act and do quality work is balanced.

Given above are the broad topics which will be discussed during the two days. Besides, need specific queries, clarifications would also be addressed by the Trainer.

Some Important Tips:

- **About the participants:** The group of masons identified should be skilled masons. If targeted group of 50 to 60 masons are not available, in that case, some 10 percent semi-skilled masons may also be taken. Identification to be done by the city Engineer/Planner.
- **Identification of Construction Site:** For practical demonstration, a site with ongoing construction work preferably at foundation/plinth/slab level may be identified for conducting the practical exercises.
- **Training Logistics:** It is required to organize the training venue in such a place so that participants could approach the construction site for technical demonstration and exercises.
- **LCD Projector is a Must.** Hence, it is to be arranged from the city level Depts/agencies.
- **Sitting Arrangement:** In order to facilitate an interactive and two-way training sessions, sitting arrangement should be organized in a circle or semi-circular mode. Auditoriums should not be preferred.
- **Note Pads & Pen:** Arrangement for such items should be made so that note taking by the participants could be facilitated.
- **Feedback :** Filling of the feed back form should be made at the end of day 2. this is necessary for assessing the changed perception, acquired skills and their application by the masons at work places.
- **List of Participants:** The list of masons registered under the training should be handed over to the Municipal authority and a copy to be kept for the record.

Note: Budgetary provisions need to be checked and cost estimations should be worked out by the POs concerned.