

## **Overview of Course Plans, trainee profiles & expected outcomes of Training**

GFITT aims to not only train KRCL's own manpower for its projects but also envisages to generate qualified and trained personnel for the benefit other Governmental organisations, private sector and even foreign entities. The Institute envisages training Engineers in aspects of tunneling to enable them to carry out processes in an informed and technically sound manner. The following is an overview of Course Plans, Trainee Profiles and expected outcomes of Training:

### **1) Fourteen weeks Foundation Course.**

#### **(i) Course Plan**

The Course Plan will be to introduce the Trainees to the fundamentals of tunneling at GFITT, Goa. Each Topic would be for duration of 30 hours. A Credit is earned by the Trainee in the Topic after a process of evaluation. The Course envisages earning of 14 Credits with Classroom Training of 12 weeks, Technical Tour of Indian Tunnels for one week and Project Report work from their place of work for duration of one week. These Credits would lead to award of Foundation Level / Advanced Level Certificates of GFITT.

One Topic each will be dealt in IIT Bombay, ETH Zurich and Hagerbach Test Gallery, Flums, Switzerland. Therefore, the Trainees will experience Lectures, Laboratory work and visits to work sites.

#### **(ii) Experience profile and expectations**

##### **A) Junior Management**

This is a Course for Engineering Graduates with not more than five years' exposure in tunneling. The endeavor would be also to attract Trainees fresh from the Universities so as to equip them to take up supervision of tunneling independently.

##### **B) Middle level Management**

This is a Course for Engineering Graduates with five years to fifteen years of professional experience. The endeavor would be to enable the Trainees to take up organizing works of tunneling independently.

##### **C) Senior Management**

The Trainees will be senior professionals with experience of more than 15 years. The Courses will be designed to refresh their knowledge in tunneling and will be aimed to enable them to learn new trends in Tunnel Technology, Material, Safety, Contract Management, etc.

### **2) Four Weeks Courses.**

These are Courses for those professionals of the above levels who cannot devote 14 weeks in a single stretch but will be able to attend Courses of shorter duration that offer Credits to enable them to attain qualification to be awarded a certificate of having completed the Foundation Course or greater of GFITT. One Topic each is proposed to be dealt in ETH Zurich and Hagerbach Test Gallery, Flums, Switzerland. Therefore the Trainees will experience Lectures, Laboratory and will visit work sites in Switzerland/Austria.

### **3) Two Weeks Courses.**

These are Courses for those professionals of the above levels who cannot devote 14 weeks / 4 weeks in a single stretch but will be able to attend Courses of two weeks duration that offer Credits to enable them to attain qualification to be awarded a certificate of having completed the Foundation Course or greater of GFITT. One Topic of one week each is proposed to be dealt at GFITT and in IIT Bombay / ETH Zurich & Hagerbach Test Gallery, Flums, Switzerland.

### **4) Special Courses**

Customized Courses of durations of one week or lesser for professionals of all levels on overview of tunneling / special topics at Madgaon / IIT Bombay / ETH Zurich & Hagerbach Test Gallery, Flums, Switzerland. These Courses may not offer any Credits for award of Certificates of Foundation Level or greater.

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