



DELHI METRO RAIL CORPORATION LIMITED

**Advanced Training Programme
on
Signaling & Train Control System
and
Fare Collection System**

April – 05-07, 2017

At

**DMRC, Training Institute
Train Depot, Shastri Park
New Delhi-110053**



Advanced Training Programme on S&TC System & Fare Collection System

Most cities in India are witnessing exponential growth hence urban transportation becomes one of the major challenging issues today. Automatic signaling & Train control and Automatic fare collection systems form backbone of any urban transport system.

DMRC is known for its multifarious experience in the successful planning, execution, operations and maintenance of most modern Rail based urban transportation system in the country. The efficient S&TC and AFC system plays an important role in DMRC operations. DMRC Training Institute desires to conduct its fourth Advanced Training Programme on S&T & Fare Collection System so that the key concepts in the field can be shared with the aspirants. The previous such programmes were attended and appreciated by the participants from various organizations across the country.

Objectives

- To make the participants understand the concepts related with system of working and Automatic Fare collection (AFC) system in rail based MRTS in urban transportation.
- To make the participants understand the need of new technologies in the domain of Signaling and Train control and AFC system in rail based MRTS in urban transportation.
- To analyze the applicability of different types of Signaling and Train control system of MRTS in urban transportation.

For

- Maintainers and operators associated with Train control system of rail based urban transport sector.
- Urban transport organizations such as metro, mono rail, suburban rail and light rail systems.
- Technology and signaling equipment suppliers.
- Other aspirants seeking to know about S&TC and AFC systems.

Venue

The programme will be held at the Training Institute, Shastri Park Train Depot, Shastri Park, New Delhi-110053. Hostel facility is available for limited number of participants on first come first serve basis. Other participants shall arrange for lodging and boarding themselves during the period of course.

Contents

<ul style="list-style-type: none">• MRGR-2013 Chapter – III Signal & Control	<ul style="list-style-type: none">• MRGR-2013 Ch-VIII System of Working
<ul style="list-style-type: none">• Overview of Signaling systems used in DMRC	<ul style="list-style-type: none">• ATS Overview
<ul style="list-style-type: none">• Overview of Moving Block System (CBTC system)	<ul style="list-style-type: none">• ATP Overview (Trackside & Trainborne equipments)
<ul style="list-style-type: none">• Point Machine (Trailable & Non-Trailable) & Overview of Point Machine used in DMRC	<ul style="list-style-type: none">• Overview of Computer Based Interlocking
<ul style="list-style-type: none">• Overview of Track Detection Devices (Track Circuit, Axle Counter)	<ul style="list-style-type: none">• Overview of Telecom systems used in DMRC
<ul style="list-style-type: none">• Working of OCC	<ul style="list-style-type: none">• Overview of AFC System
<ul style="list-style-type: none">• Maintenance Philosophy of S&T systems	<ul style="list-style-type: none">• Platform Screen Doors & its interfaces with S&TC
<ul style="list-style-type: none">• Automatic Fare Collection System Lab Visit	<ul style="list-style-type: none">• ATS Simulator
<ul style="list-style-type: none">• Operational Control Centre Visit : S&T Familiarization with signaling equipments in OCC	<ul style="list-style-type: none">• Test Track Visit
<ul style="list-style-type: none">• Station Visit : S&T Familiarization with signaling equipments in Signaling Equipment Room & Telecom Equipment Room	

*MRGR: Metro Railway General Rules

Fee

The course fee per candidate for said course is Rs. 30,000/- for non residential and Rs. 35,000/- for residential participants. The taxes as applicable are also chargeable in addition to the fee.

The following discounts are applicable:

- a) Early Bird Discount: 10% of academic fee if nominations are received by the specific date (31st March, 2017)
- b) Group Discount: 10% of academic fee if an organization nominates 3 or more participants.

Note: Discount is applicable only on academic fee. Maximum 20% discount can be given in case both conditions are applicable.

Payment of applicable fees may kindly be made in advance to confirm nomination. Fee may be paid by the demand draft/ pay order in favour of "Delhi Metro Rail Corporation Limited" payable at New Delhi. The payment can also be made electronically as per following details:

Bank a/c no-1120005800000032
RTGS/NEFT IFSC code- PUNB0112000
Bank Address: ECE House, K.G. Marg,
New Delhi

The candidates will be issued with the certificate of participation.

Nominations and Inquiries

Nominations should reach in the prescribed format with programme fee in form of DD/Pay order in favor of 'Delhi Metro Rail Corporation Limited' payable at 'New Delhi' to the office of Vice Principal/ Training Institute, Shastri Park Train Depot, Shastri Park, New Delhi-110053.

For nominations forms and information, please contact:

**Vice Principal/ Training Institute
Shastri Park Train Depot,
Shastri Park, New Delhi-110053, Mob. 9810568551**

Email: mahender5101@gmail.com, mahender.singh@dmrc.org

Website: www.delhimetrorail.com/training-institute/

About DMRC Training Institute



Since inception, DMRC has realised the need of competency building in rail based urban transportation systems. In its efforts to impart world class training, a dedicated Training Institute was set up & inaugurated on 19/07/2002 in Shastri park train depot of DMRC. The Training Institute is ISO 9001:2008 accredited for design, development and delivery of training programmes. The Training Institute has a sprawling campus of 10000 Sqm and is located at relatively quieter but otherwise very well accessible location in Delhi. Shastri Park Train Depot, DMRC's oldest maintenance depot is just adjacent, which is handy in providing practical exposure to the trainees. Training Institute is equipped with state of art training infrastructure, most advanced simulators for training in the field of operations and maintenance. The DMRC training institute is the only institute in the country which is equipped with all modern facilities to impart customized training on almost all aspects of operations and maintenance of rail based urban transportation systems. We have distinction of training not only DMRC employees but also employees from other metro systems such as Bengaluru Metro, Chennai Metro, Jaipur Metro, Mumbai Metro, Rapid Metro and Kochi Metro. We are also equipped with training infrastructure to accept proposals from neighbouring countries in the field of urban rail transportation.



Training Institute

DMRC, Train Depot,

East Approach Road, Shastri Park, New Delhi-110053