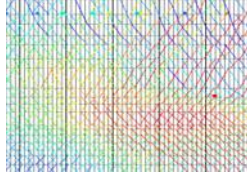


2024 No. 2	Train Operations 3	Effective Method for Enhancing Punctuality
	Advanced Course	



Train delays



Evaluation & Analysis



Train schedules



Rolling stock



Platform, etc.

Improvement measures

## KEY POINT

By learning concrete examples of Tokyo Metro improvements, you will be able to use them as a reference when considering solutions to delays.

## OVERVIEW

On the Tozai Line, Tokyo Metro's busiest line, we will introduce a series of processes that have improved punctuality in train operations through a combination of various measures based on the results of train delay surveys. The measures which have been implemented include analysis by Buffer Index (evaluation index of train delay quality), reviews of train schedules, changes of station operations, and improvements in various facilities.

## LECTURE CONTENTS

### 1) Overview of train operations

- Overview of train operations on the nine Tokyo Metro lines, and transport records

### 2) Transport planning basics

- Basic concept of creating train schedules  
Prerequisites (line conditions, rolling stock and ground equipment, number of passengers, etc.)  
Setting of running time, station dwell time, running headway, etc.

### 3) Evaluation and analysis methods for delays

- Detailed analysis and evaluation using Buffer Index based on the overall picture of delays from train operation performance data and field survey results

### 4) Improvement measures for train delays

- Implemented measures including reviews of train schedules, changes of station operations, improvements in various facilities (signaling, rolling stock, station facilities) and their effectiveness (44% improvement on max delay time) to improve the delay on the Tozai Line, the busiest Tokyo Metro line, based on the analysis and evaluation results

## KEY DETAILS

<b>Dates and Times</b>	<b>January 23 and 25, 2024 (The same content will be presented on each day.)</b> -January 23, 2024 5:00 p.m. JST / 9:00 a.m. CET / 3:00 a.m. EST <Duration: 3 hours> -January 25, 2024 8:00 a.m. JST / 12:00 a.m. CET / 6:00 p.m. (24th) EST <Duration: 3 hours>
<b>Targets</b>	Advanced Course: for those who have 3 years or more experience in the railway industry.
<b>Location</b>	Online (Cisco webex)
<b>Language</b>	English
<b>Lecture Fee</b>	45,000 JPY (per day) Note: Applications within Japan are subject to the tax separately. * Cut-off date: Please apply at least one business day before each lecture in order to receive related-materials by email in advance.
<b>Certificate</b>	Attendance Certificate (digital) will be issued.

## LECTURER



### KOHEI USHIDA

Joined 1984. Based on his experience as a station attendant, conductor, train driver, traffic control dispatcher, transportation planner, and driver trainer, he has worked on a variety of overseas projects. He also contributed to the development of the Buffer Index.

## More Info and application



<https://sites.google.com/tokyometroacademy.com/index>

You can apply regardless of your field.