

2024 No. 16	Infrastructure 2	Civil Engineering Maintenance
	Basic Course	



Tunnel



Bridge



Viaduct



DX for inspections

### KEY POINT

By learning about the overall picture and specific examples of maintenance for civil engineering structures in Tokyo Metro, you will be able to use them as a reference when considering civil engineering maintenance.

### OVERVIEW

Tokyo Metro's civil engineering structures include tunnels, bridges, and viaducts, which are maintained to ensure that trains can operate in safe and stable condition.

We will first introduce the rules set by the law and regulations in Japan for maintenance of railway civil engineering structures. And then introduce the periodic inspections and repairs, which are conducted by Tokyo Metro based on these rules.

In addition, the state of utilization of digital tools for efficient and effective periodic inspections will be introduced. Furthermore, examples of analysis and construction work to ensure the longevity of structures will be introduced.

### LECTURE CONTENTS

#### 1) Characteristics of civil engineering structures in Tokyo Metro

- Overview of civil engineering structures such as tunnels, bridges, and viaducts

#### 2) Daily maintenance

- Periodic inspection contents and inspection cycle of civil engineering structures
- Repair work based on inspection results

#### 3) Maintenance for longevity

- Reinforcement of structures by large-scale improvement works

#### 4) Pursuit of efficient maintenance management utilizing digital tools

- Efficiency of maintenance management utilizing inspection apps and drone

### KEY DETAILS

<b>Dates and Times</b>	<b>December 10 and 12, 2024 (The same content will be presented on each day.)</b> -December 10, 2024, 5:00 p.m. JST / 9:00 a.m. CET / 3:00 a.m. EST <Duration: 2 hours> -December 12, 2024, 9:00 a.m. JST / 1:00 a.m. CET / 7:00 p.m. (11th) EST <Duration: 2 hours>
<b>Targets</b>	Basic Course: for those who have less than 3 years experience in the railway industry
<b>Location</b>	Online (Microsoft Teams)
<b>Language</b>	English
<b>Lecture Fee</b>	20,000 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



#### TAKU KANZAWA

Joined 2015. Based on his experience in civil engineering structure planning, design, construction management, and maintenance management, he has worked on overseas projects.

### More Info and application



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

You can apply regardless of your field.