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| 2025 R11 | 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.

COURSE CONTENTS

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| 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

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| Application Period | March 3 - 19, 2025 |
| Viewable Period | March 3 - 31, 2025 |
| Targets | Basic Course: for those who have less than 3 years experience in the railway industry |
| Language | English |
| Location | Online (Vimeo) |
| Course Duration | 50 minutes |
| Course Fee | 10,000 JPY (per 1 course) Note: Applications within Japan are subject to the tax separately. |
| Payment Method | PayPal |
| Certificate | Attendance Certificate (digital) will be issued. |

More Info and application

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

You can apply regardless of your field.