



Online Courses

Tokyo Metro Academy

2023-2024





Contributing to sustainable development of cities around the world!

Tokyo Metro Academy : Online courses where you can learn from the expertise and experience in railway operations of Tokyo Metro



Our initiatives, experiences, achievements, and expertise



Online Courses



Disclosed information can be utilized by participants in their future work.

2023 No. 6	Introductory	General	Operations and Maintenance	Jul. 2023
2023 No. 7	Basic	Train Operations 1	OCC	Jul. 2023
2023 No. 8	Basic	Rolling Stock 1	Maintenance	Aug. 2023
2023 No. 9	Basic	Infrastructure	Track Maintenance	Sep. 2023
2023 No. 10	Basic	Safety	Accidents and Disasters	Oct. 2023
2023 No. 11	Basic	Non-rail Business	Station Commercial Facilities	Oct. 2023
2023 No. 12	Basic	Train Operations 2	<New> Train Schedule	Nov. 2023
2023 No. 13	Basic	Service	<New> Customer Satisfaction	Nov. 2023
2023 No. 14	Basic	Electrical Facilities 1	<New> Power Supply Maintenance	Dec. 2023
2023 No. 15	Basic	Training	<New> Cross-departmental Training	Dec. 2023
2024 No. 1	Advanced	Rolling Stock 2	<New> Maintenance Planning	Jan. 2024
2024 No. 2	Advanced	Train Operations 3	Enhancing Punctuality	Jan. 2024
2024 No. 3	Advanced	Electrical Facilities 2	Energy Conservation	Feb. 2024
2024 No. 4	Advanced	Technology	<New> Technology Development	Feb. 2024

* <New>: Course newly open

Language English **Lecture Fee** 45,000 JPY (3 hours) / 15,000 JPY (1 hour 30 min.) [2023 No. 6 only]

Payment method PayPal

Course Level

Introductory	for those aspiring to work in the railway industry (students, etc.)
Basic	for those who have less than 3 years experience in the railway industry
Advanced	for those who have 3 years or more experience in the railway industry

Application (Official Website)



Please check our website for most updated information.
<https://sites.google.com/tokyometroacademy.com/index>

SNS



Contact us

tokyometro-online-courses@tokyometro.jp



2023 No. 6	General	Overview of Operations and Maintenance
	Introductory Course	



Operations



Maintenance

KEY POINT

By learning an overview of Tokyo Metro's operations and maintenance, you will be able to gain basic knowledge of the operations and maintenance of a railway operator.

OVERVIEW

We will introduce an overview of "operations of trains and stations" and "maintenance of rolling stock, infrastructure, and electrical facilities," as well as an overview of "interdepartmental collaboration initiatives related to safety and service".

LECTURE CONTENTS

- 1) Railway system
 - Roles of railway operators and contents of railway business
- 2) Operations and maintenance
 - Operations: Train operation and Station Operation
 - Maintenance: Rolling stock, Infrastructure, and Electrical facilities
- 3) Interdepartmental collaboration initiatives
 - Safety Initiatives
 - Service Initiatives

KEY DETAILS

Dates and Times	July 6 and 13, 2023 (The same content will be presented on each day.) -July 6, 2023 5:00 p.m. JST / 10:00 a.m. CEST / 4:00 a.m. EDT <Duration: 1 hour 30 min.> -July 13, 2023 8:00 a.m. JST / 1:00 a.m. CEST / 7:00 p.m. (12th) EDT <Duration: 1 hour 30 min.>
Targets	Introductory Course: for those aspiring to work in the railway industry (students, etc.)
Location	Online (Cisco webex)
Language	English
Lecture Fee	15,000 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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



KAZUNORI WAKITA
Joined 2012. Based on his experience as a station attendant, and conductor, he had been involved in the Olympic and Paralympic projects, including demand estimation and management, operation planning, and promotion planning.

More Info and application



<https://sites.google.com/tokyometroacademy.com/index>
You can apply regardless of your field.



2023 No. 7	Train Operations 1	Operations Control Center Response to Abnormalities
	Basic Course	



Integrated Control Center (OCC)



Operates nine lines, 195 km of track, and 2,736 cars

KEY POINT

By learning about the structure of the Integrated Control Center (OCC) of Tokyo Metro, and its response to disasters and accidents, you will be able to use them as a reference when considering improvements to the organizational structure of the OCC and response to accidents and disasters.

OVERVIEW

We will introduce the organizational structure of the OCC and the internal and external collaboration systems for responding to trouble, as well as examples of accident and disaster responses that Tokyo Metro has experienced in the past.

LECTURE CONTENTS

1) OCC organizational structure
<ul style="list-style-type: none">- Role of organizations and staff in the OCC- Internal and external collaboration systems for problem response
2) Response to disasters and accidents
<ul style="list-style-type: none">- Natural disasters (earthquake, wind and flooding, etc.)- Various accidents- Terrorism in railway system

KEY DETAILS

Dates and Times	July 20 and 27, 2023 (The same content will be presented on each day.) -July 20, 2023 5:00 p.m. JST / 10:00 a.m. CEST / 4:00 a.m. EDT <Duration: 3 hours> -July 27, 2023 8:00 a.m. JST / 1:00 a.m. CEST / 7:00 p.m. (26th) EDT <Duration: 3 hours>
Targets	Basic Course: for those who have less than 3 years experience in the railway industry
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	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.

More Info and application



<https://sites.google.com/tokyometroacademy.com/index>
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2023 No. 8	Rolling Stock 1	Rolling Stock Maintenance Basics
	Basic Course	



New rolling stock



Periodic inspection



Each equipment inspection

KEY POINT

You will be able to gain a general understanding of the specific inspection plans and work involved in Tokyo Metro' s rolling stock maintenance. When considering improvements at your work, you can use this information to compare and verify your rolling stock maintenance.

OVERVIEW

We will introduce an extensive overview of various inspections aimed at maintaining soundness and functionality and reducing the possibility of failures to achieve Tokyo Metro' s rolling stock maintenance, as well as the utilization of inspection and repair information to achieve high-quality inspections.

LECTURE CONTENTS

1) Inspection and repair system of Tokyo Metro' s rolling stock

- Types of inspections, facilities for inspections, establishment and operation of maintenance standard values, and the concept of replacing consumable parts, etc.

2) Management of inspection and repair information for failure reduction

- Data collection to achieve high-quality inspections by utilizing information on failure repair history and wheel wear volume, etc.

KEY DETAILS

Dates and Times	August 24 and 31, 2023 (The same content will be presented on each day.) -August 24, 2023 5:00 p.m. JST / 10:00 a.m. CEST / 4:00 a.m. EDT <Duration: 3 hours> -August 31, 2023 8:00 a.m. JST / 1:00 a.m. CEST / 7:00 p.m. (30th) EDT <Duration: 3 hours>
Targets	Basic Course: for those who have less than 3 years experience in the railway industry
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



MAKOTO SHIMIZU
Joined 1995. Based on his experience in rolling stock planning, design, maintenance operations, and international procurement, he has worked on various overseas projects.

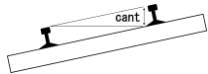
More Info and application



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You can apply regardless of your field.



2023 No. 9	Infrastructure	Track Maintenance
	Basic Course	



Design



Inspection



Repair



Renovation

KEY POINT

By learning about Tokyo Metro's track maintenance cycle, you will be able to use it as a reference when considering improvements of track inspection and repair.

OVERVIEW

The maintenance and management of tracks is based on the cycle of "inspection and judgment → repair planning → construction," and consists of various efforts. In this lecture, we will introduce the basics of track design, inspection and repair, as well as track maintenance efforts in urban tunnels.

LECTURE CONTENTS

- 1) Track design
 - Fundamentals of track design
- 2) Track inspection
 - Tracks for inspection, inspection content, inspection cycle, and judgment
- 3) Track repair
 - Basic track repair work
- 4) Track renovation work
 - Introduction of subway track renovation work

KEY DETAILS

Dates and Times	September 5 and 7, 2023 (The same content will be presented on each day.) -September 5, 2023 8:00 a.m. JST / 1:00 a.m. CEST / 7:00 p.m. (4th) EDT <Duration: 3 hours> -September 7, 2023 5:00 p.m. JST / 10:00 a.m. CEST / 4:00 a.m. EDT <Duration: 3 hours>
Targets	Basic Course: for those who have less than 3 years experience in the railway industry
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



YUICHIRO YANAGISAWA
Joined 2000. Based on his experience in track planning, design, maintenance, and international procurement, he has worked on various overseas projects.

More Info and application



<https://sites.google.com/tokyometroacademy.com/index>
You can apply regardless of your field.



2023 No. 10	Safety	Responses, Countermeasures and Training to Handle Accidents and Disasters
	Basic Course	



Emergency response system



Safety equipment



Disaster countermeasures



Human resource development

KEY POINT

By learning about Tokyo Metro's various responses, countermeasures, and training for accidents and disasters, etc., you will be able to use them as a reference when considering such countermeasures.

OVERVIEW

We will introduce examples of emergency responses to handle accidents and disasters, station and train safety measures, disaster and railway terrorism countermeasures, as well as training and drills to improve safety.

LECTURE CONTENTS

1) Establishment of an emergency response system in the event of an accident or disaster, etc.

- Implementation details of emergency response system
- Implementation of various types of drills in preparation for accidents and disasters, etc. (comprehensive drills simulating emergencies, drills in cooperation with the government, etc.)

2) Safety measures

- Station safety measures
- Train safety measures

3) Disaster and railway terrorism countermeasures

- Countermeasures against earthquakes, large-scale flooding, strong wind, wide-spread power outage, fire, and railway terrorism

4) Human resource development for safety improvements

- Training and drills aimed at equipping employees with the necessary knowledge and skills to ensure transportation safety and provide peace of mind

KEY DETAILS

Dates and Times	October 5 and 12, 2023 (The same content will be presented on each day.)
	-October 5, 2023 5:00 p.m. JST / 10:00 a.m. CEST / 4:00 a.m. EDT <Duration: 3 hours> -October 12, 2023 8:00 a.m. JST / 1:00 a.m. CEST / 7:00 p.m. (11th) EDT <Duration: 3 hours>
Targets	Basic Course: for those who have less than 3 years experience in the railway industry
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



YOSHIKI SHIMIZU
Joined 2006. Engaged in planning, design, and maintenance of railway facilities, investigating introduction of new technologies, and international procurement of goods. He acted as the test manager for the field testing for the introduction of the stationary energy storage system for emergency driving.

More Info and application



<https://sites.google.com/tokyometroacademy.com/index>
You can apply regardless of your field.



2023 No. 11	Non-rail business	Development of Commercial Facilities at Stations
	Basic Course	



Underground station commercial facilities



Commercial facilities under elevated railways



Commercial facilities in station building

KEY POINT

By learning about the necessity and examples of business scale expansion of commercial facilities that are underground, above-ground, under elevated railways, and inside station buildings, you will be able to use them as a reference when considering the development of commercial facilities at existing and new stations.

OVERVIEW

We will introduce why commercial facilities are necessary in stations, examples of business scale expansion, and also an overview of planning, development, and operational management for commercial facilities underground and above-ground stations, under elevated railways, and station building complexes.

LECTURE CONTENTS

1) Necessity of station commercial facilities
- Necessity of business development of station commercial facilities for railway operators
2) Business scale expansion of station commercial facilities
- Development of station commercial facilities since about 90 years ago
- Business scale expansion of station commercial facilities since about 30 years ago
- Further business scale expansion of station commercial facilities since about 20 years ago
3) Overview of planning, development, and operational management of station commercial facilities
- Concept, development plan, tenant management, etc.

KEY DETAILS

Dates and Times	October 17 and 19, 2023 (The same content will be presented on each day.) -October 17, 2023 8:00 a.m. JST / 1:00 a.m. CEST / 7:00 p.m. (16th) EDT <Duration: 3 hours> -October 19, 2023 5:00 p.m. JST / 10:00 a.m. CEST / 4:00 a.m. EDT <Duration: 3 hours>
Targets	Basic Course: for those who have less than 3 years experience in the railway industry
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



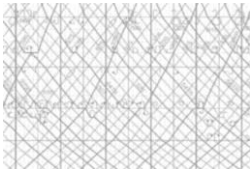
TAKAHIRO TANISAKA
Joined 2000. Engaged in various projects involving overseas support and technical cooperation. Currently, he acts as the training leader for the project to support the establishment and strengthen the operational capacity of the Philippine Railways Institute, commissioned by JICA*.
*JICA: Japan International Cooperation Agency

More Info and application



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2023 No. 12	Train Operations 2	Train Schedule Basics
	Basic Course	



Train schedule

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Train timetable

KEY POINT

By learning the basic overview of train schedules, you will be able to use it as a reference when you create, analyze, and revise train schedules.

OVERVIEW

Tokyo Metro operates nine railway lines, with 195km of track in and around central Tokyo. Seven of the lines have reciprocal through-service with other railway companies. The minimum train operation interval is 2 minutes and 5 seconds in the morning rush hour.

We will introduce train schedule basics, how to create train schedules based on examples in Tokyo Metro, how to survey and analyze train schedules, and how to revise train schedules based on analysis results.

LECTURE CONTENTS

- 1) Overview of train operations
- Overview of urban railway train operations
- 2) Overview of train schedule basics
- Overview of basic knowledge and how to read train schedules
- 3) Create train schedule
- How to create train schedules
- 4) Analyze train schedule
- How to survey and analyze train schedules
- 5) Revise train schedule
- How to revise train schedules based on the analyzed results

KEY DETAILS

Dates and Times	November 2 and 9, 2023 (The same content will be presented on each day.) -November 2, 2023 5:00 p.m. JST / 9:00 a.m. CET / 4:00 a.m. EDT <Duration: 3 hours> -November 9, 2023 8:00 a.m. JST / 12:00 a.m. CET / 6:00 p.m. (8th) EST <Duration: 3 hours>
Targets	Basic Course: for those who have less than 3 years experience in the railway industry
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	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.

More Info and application



<https://sites.google.com/tokyometroacademy.com/index>
You can apply regardless of your field.



2023 No. 13	Service	Customer Satisfaction Improvement Initiatives -95 Years History and Future of Urban Railway Operation-
	Basic Course	



Customer Satisfaction



Special Train Ticket

KEY POINT

Customer Satisfaction (CS) is not about complaint handling. What do we find in customer feedback which is a Treasure trove (= source) of improvement? Increasing the use of public transportation by providing customer service that resonates with customers and promoting use of public transportation will lead to reduction of CO₂ emissions, that is environment friendly. This course will be a good opportunity to think about the importance of CS and CX (Customer Experience).

OVERVIEW

We will discuss with you how to improve customer satisfaction by putting ES (Employee Satisfaction) and CX in mind, in order to solve the difficult mission of increasing profitability while serving a social mission as a public transportation provider.

LECTURE CONTENTS

- 1) Tokyo Metro's customer service
 - Reviewing the history of Customer Service in Tokyo Metro from tangible and intangible aspects
- 2) Tokyo Metro's action for Customer Satisfaction
 - Detailed examples of Customer Satisfaction actions taken in Tokyo Metro
- 3) Impressive response and promotion to use of Tokyo Metro
 - The full story behind the creation of Customer Satisfaction response and usage promotion measures of Tokyo Metro
- 4) Learning from mistake <Empirical Engineering will apply to railway as well>
 - Utilizing customer feedback in Tokyo Metro staff training
- 5) True meaning of customer perspective <Role of each person, from executive to employee>
 - Considering the direction of next-generation service provision, taking employee satisfaction (ES) into account

KEY DETAILS

Dates and Times	November 28 and 30, 2023 (The same content will be presented on each day.) -November 28, 2023 5:00 p.m. JST / 9:00 a.m. CET / 3:00 a.m. EST <Duration: 3 hours> -November 30, 2023 8:00 a.m. JST / 12:00 a.m. CET / 6:00 p.m. (29th) EST <Duration: 3 hours>
Targets	Basic Course: for those who have less than 3 years experience in the railway industry
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



HIDEO AKASHI
Joined 2007. Based on his experience as a station staff, assigned to several departments related to customer satisfaction (CS), such as responding to customer opinions, promoting company CS, and planning and management of station operations. Currently working on station operations for overseas projects.

More Info and application



<https://sites.google.com/tokyometroacademy.com/index>
You can apply regardless of your field.



2023 No. 14	Electrical Facilities 1	Power Supply Maintenance
	Basic Course	



Substation



Contact Lines



Power transmission and distribution

KEY POINT

By learning the maintenance details of electric power supply equipment in urban railways, you will be able to use them as a reference when considering the formulation and review of the maintenance contents.

OVERVIEW

Tokyo Metro maintains 62 substations, three types of contact lines, and transmission and distribution lines in terms of power supply, which is one of the elements necessary for safe and stable operations of trains.

We will introduce the facility overview, maintenance contents, and efforts to improve safety of power supply facilities for substations, contact lines, and transmission and distribution lines in urban railways.

LECTURE CONTENTS

- 1) Overview of power supply facilities
 - Overview of power supply facilities in urban railways
- 2) Maintenance basics
 - Types, cycles, and organizational structure of periodic inspections
- 3) Maintenance details of substation, contact lines, power transmission, and distribution lines
 - Maintenance details of substations, contact lines (overhead catenary system, overhead rigid conductor system, third rail system/ DC 1,500V, 600V), and power transmission and distribution (AC 22kV, 6.6kV, 3.3kV)
- 4) Initiatives of safety improvements
 - Date recording analysis/monitoring
 - Review of inspection and maintenance contents based on accidents, and breakdowns.

KEY DETAILS

Dates and Times	December 5 and 7, 2023 (The same content will be presented on each day.) -December 5, 2023 5:00 p.m. JST / 9:00 a.m. CET / 3:00 a.m. EST <Duration: 3 hours> -December 7, 2023 8:00 a.m. JST / 12:00 a.m. CET / 6:00 p.m. (6th) EST <Duration: 3 hours>
Targets	Basic Course: for those who have less than 3 years experience in the railway industry
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



YOSHIKI SHIMIZU
Joined 2006. Engaged in planning, design, and maintenance of railway facilities, investigating introduction of new technologies, and international procurement of goods. He acted as the test manager for the field testing for the introduction of the stationary energy storage system for emergency driving.

More Info and application



<https://sites.google.com/tokyometroacademy.com/index>
You can apply regardless of your field.



2023 No. 15	Training	Specialized and Cross-departmental Training Utilizing Training Facilities
	Basic Course	



Comprehensive Learning and Training Center



Specialized training



Cross-departmental drill

KEY POINT

By learning the overview of human resources development and practical training content utilizing training facilities, you will be able to use them as a reference when considering training and drills contents for human resources development.

OVERVIEW

To ensure safe and stable transportation, by putting customer safety first, Tokyo Metro is working to enhance employees' sense of mission and technical capabilities by conducting training utilizing the training center.

We will introduce the concept and implementation policy of human resources development, the training facilities of the training center, training and drills in each specialized field, and cross-departmental drills.

LECTURE CONTENTS

- 1) Overview of human resource development
 - Approach to human resources development and implementation policy
- 2) Training Facilities
 - Training facilities in the training building and practical training lines at the Comprehensive Learning and Training Center
- 3) Training and drills in specialized fields
 - Training in the fields of train and station operations, infrastructure, rolling stock, and electrical facilities
- 4) Cross-departmental drills
 - Drills for each department working together to investigate and recover from the problem

KEY DETAILS

Dates and Times	December 12 and 14, 2023 (The same content will be presented on each day.) -December 12, 2023 5:00 p.m. JST / 9:00 a.m. CET / 3:00 a.m. EST <Duration: 3 hours> -December 14, 2023 8:00 a.m. JST / 12:00 a.m. CET / 6:00 p.m. (13th) EST <Duration: 3 hours>
Targets	Basic Course: for those who have less than 3 years experience in the railway industry
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



YOSHIKI SHIMIZU
Joined 2006. Engaged in planning, design, and maintenance of railway facilities, investigating introduction of new technologies, and international procurement of goods. He acted as the test manager for the field testing for the introduction of the stationary energy storage system for emergency driving.

More Info and application



<https://sites.google.com/tokyometroacademy.com/index>
You can apply regardless of your field.



2024 No. 1	Rolling Stock 2	Rolling Stock Maintenance Planning and Advanced ATO Control Function (Station Stop Accuracy & Ride Comfort)
	Advanced Course	



Rolling stock maintenance

KEY POINT

By learning the PDCA cycle in rolling stock maintenance, you will understand the necessary activities required for rolling stock maintenance and be able to perform high quality maintenance.

OVERVIEW

In order to support safe and stable transportation, Tokyo Metro performs planned and optimal rolling stock maintenance by grabbing and managing information on malfunctions and predictive signs to keep rolling stock in sound condition.

We will introduce an example of specific improvement activities to achieve higher quality transportation, along with the PDCA cycle in rolling stock maintenance.

LECTURE CONTENTS

- 1) Overview of rolling stock maintenance
- Basics about maintenance contents and cycles, etc.
- 2) PDCA cycle for rolling stock maintenance
- Introduction of specific activities to plan, implement, check, and improve maintenance
- 3) Higher quality transportation: Basic and advanced functions in ATO
- Improvement of stopping accuracy and ride comfort-

- Introduction of advanced functions of ATO (Automatic Train Operation), such as coordination with propulsion system and brake, improvement of stopping accuracy, and control methods for rainy weather and approaching preceding trains

KEY DETAILS

Dates and Times	January 11 and 18, 2024 (The same content will be presented on each day.) -January 11, 2024 5:00 p.m. JST / 9:00 a.m. CET / 3:00 a.m. EST <Duration: 3 hours> -January 18, 2024 8:00 a.m. JST / 12:00 a.m. CET / 6:00 p.m. (17th) EST <Duration: 3 hours>
Targets	Advanced Course: for those who have 3 years or more experience in the railway industry.
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



SATORU OHASHI
Joined 2002. Based on his experience in rolling stock design (mainly electrical system), daily maintenance and troubleshooting in the inspection yard, failure management section, etc., he has worked on various overseas projects related to rolling stock.



DAIKI NAKAMURA
Joined 2009. Based on his experience in daily maintenance in the inspection yard, rolling stock design (mainly mechanical equipment), overseas procurement of rolling stock equipment, project management of newly built rolling stock, etc., he has worked on various overseas projects related to rolling stock.

More Info and application



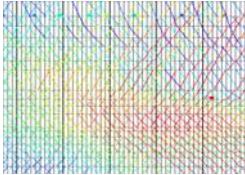
<https://sites.google.com/tokyometroacademy.com/index>
You can apply regardless of your field.



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

Dates and Times	January 23 and 25, 2024 (The same content will be presented on each day.) -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>
Targets	Advanced Course: for those who have 3 years or more experience in the railway industry.
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	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.



2024 No. 3	Electrical Facilities 2	Energy Conservation Initiatives
	Advanced Course	



Stationary energy storage system



Station auxiliary power supply unit

KEY POINT

By learning an overview of various energy conservation equipment at Tokyo Metro and the process when considering such equipment, you will be able to use them as a reference when doing so.

OVERVIEW

We will introduces an overview of the various energy conservation equipment installed in Tokyo Metro, and also the sequence of events from the feasibility study to full-scale implementation of the stationary energy storage system and station auxiliary power supply unit for regenerative power equipment.

LECTURE CONTENTS

- 1) Introduction to energy conservation
 - History of energy conservation technologies
 - Status of energy consumption
- 2) Overview of various examples of energy conservation equipment
 - Regenerative power equipment
(Stationary energy storage system, Inverter for regenerative electric power, Station auxiliary power supply unit)
 - Equipment for effective use of renewable energy (Solar power generation system, etc.)
 - Energy conservation equipment
- 3) Technological development of energy conservation equipment
 - From feasibility study to full-scale implementation of stationary energy storage system
 - From feasibility study to full-scale implementation of station auxiliary power supply unit
- 4) Trend of energy conservation technologies
 - Recent energy conservation related technological trends in the railway sector

KEY DETAILS

Dates and Times	February 1 and 8, 2024 (The same content will be presented on each day.) -February 1, 2024 5:00 p.m. JST / 9:00 a.m. CET / 3:00 a.m. EST <Duration: 3 hours> -February 8, 2024 8:00 a.m. JST / 12:00 a.m. CET / 6:00 p.m. (7th) EST <Duration: 3 hours>
Targets	Advanced Course: for those who have 3 years or more experience in the railway industry.
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



YOSHIKI SHIMIZU
Joined 2006. Engaged in planning, design, and maintenance of railway facilities, investigating introduction of new technologies, and international procurement of goods. He acted as the test manager for the field testing for the introduction of the stationary energy storage system for emergency driving.

More Info and application



<https://sites.google.com/tokymetroacademy.com/index>
You can apply regardless of your field.



2024 No. 4	Technology	Technology Development Initiatives
	Advanced Course	



Energy conservation rolling stock



Platform screen doors



Infrastructure

KEY POINT

By learning the process and examples of technology development, you will be able to use them as a reference when doing so.

OVERVIEW

Since the introduction of the world's first energy conservation rolling stock that combines a chopper-controller and a regenerative braking system in 1971, Tokyo Metro has been promoting technical development in various fields.

We will introduce the history of technology development, recent trends, examples of technology development, the process of technology development, and the contents of field tests and introductions.

LECTURE CONTENTS

1) History and recent trends of technology development
- The history of urban railway technology development in the past 50 years and the trend of technology development in recent years
2) Examples of technology development
- Examples of technology development in technical fields (rolling stock, infrastructure, and electrical facilities)
3) Process of technology development
- Processes required for technology development and details of implementation
4) Field test, introduction details
- Contents of field tests and introductions on railway operating lines

KEY DETAILS

Dates and Times	February 15 and 22, 2024 (The same content will be presented on each day.) -February 15, 2024 5:00 p.m. JST / 9:00 a.m. CET / 3:00 a.m. EST <Duration: 3 hours> -February 22, 2024 8:00 a.m. JST / 12:00 a.m. CET / 6:00 p.m. (21st) EST <Duration: 3 hours>
Targets	Advanced Course: for those who have 3 years or more experience in the railway industry.
Location	Online (Cisco webex)
Language	English
Lecture Fee	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.
Certificate	Attendance Certificate (digital) will be issued.

LECTURER



YOSHIKI SHIMIZU
Joined 2006. Engaged in planning, design, and maintenance of railway facilities, investigating introduction of new technologies, and international procurement of goods. He acted as the test manager for the field testing for the introduction of the stationary energy storage system for emergency driving.

More Info and application



<https://sites.google.com/tokyometroacademy.com/index>
You can apply regardless of your field.



How To Apply for Online Courses



1 Apply to this course

Please click the link below. Choose a convenient date for you, and proceed with the application and payment for the course.

Tokyo Metro Academy Official Website

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

When your payment has been confirmed, the host will send you an invitation email. You can refer to the details, in the PDF attached to the official website.

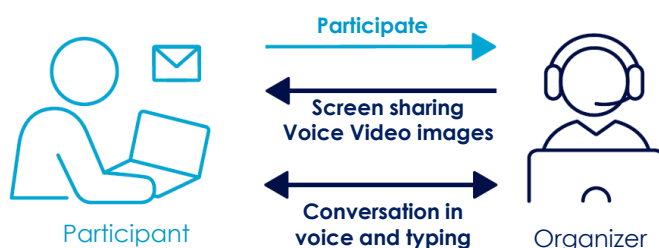


2 Application starts on April 26, 2023

* The cut-off date is 1 day before each course.

3 How to participate (Virtual classroom: Cisco Webex)

Click the link in the invitation email. The link will be open before 20 minutes the course starts.



Please note

- Please agree to the Terms of Service in order to apply. Please refer to the aforementioned PDF on the official website for the Terms of Service.
- The application method from within Japan is different than from overseas. Please refer to the aforementioned PDF on the official website for more details.
- Click on the login URL in the invitation email before the scheduled course start time. Enter the required information, such as your registration ID, on the opened web page, then click "Join Now".
- When using for the first time, you will need to install the Cisco Webex module. Follow the on-screen instructions to install the required module.
- Participants are requested to prepare the tools needed for taking the Online Courses.

Contact us : tokyometro-online-courses@tokyometro.jp



Tokyo Metro Company Profile

COMPANY OUTLINE

(As of March, 2022 unless stated otherwise.)

Company Name	Tokyo Metro Co., Ltd.
Capital	¥58.1 billion
Stockholders	National Government (53.4%), Tokyo Metropolitan Government (46.6%)
Net Sales	¥289.9 billion (FY2021)
Number of Employees	9,880 employees

Railway Business

Transport Services that Support the City Function of Tokyo



9

Subway lines



Tokyo Metro
Network **195km**

Reciprocal through-services
operated by other rail
transport companies/**550.8 km**



99.6% (FY2021)

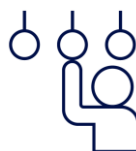
The on-time performance rate
calculated from the arrival rate
within 5 minutes on all lines is 99.6%.



180

Stations

Operates nine subway lines and
180 stations in and around central Tokyo.



7.55million (FY2019)

5.22million (FY2021)

Average passengers per day

A vital link in Tokyo's transportation network



Non-rail Businesses

Growth of the Tokyo Metro Group

Retail-related Business

The variety of new, convenient, user-friendly
commercial facilities under development
in stations for customers.



Advertising and IT Business

A wide range of media inside stations and
trains, and wireless LAN services inside
stations.



Real Estate Business

Developed office buildings, hotels, housing,
a golf driving range, and rental storage
primarily in areas near Tokyo Metro railway lines.





Tokyo Metro Overseas Railway Business

Tokyo Metro is harnessing its expertise on the operation and maintenance of urban railways to provide various forms of technical cooperation and assistance for overseas urban railway operators.

Thailand

Data Collection Survey on the Development of Blueprint for the Second Mass Rapid Transit Master Plan

Vietnam

- Assistance for Hanoi Metro Company and Ho Chi Minh City Urban Railways No.1 Company Limited through local subsidiary Vietnam Tokyo Metro One Member Limited Liability Company
- The Project on Strengthening Management Ability of Operation and Maintenance Company for the Opening of Urban Railway Line 1 in Ho Chi Minh City
- Project for Strengthening the Urban Railway Training Capacity for Railway College

The Philippines

- Technical Assistance Project to Establish the Philippine Railways Institute
- The Detailed Design Study of the Metro Manila Subway Project
- Metro Manila Subway Project (MMSP) Phase 1 General Consultant
- North-South Commuter Railway Extension Project General Consultant

Indonesia

Operation and Maintenance Consulting Services for Project of Jakarta Mass Rapid Transit System

Training consulting

From an overview to detailed content, Tokyo Metro can provide assistance that meets your needs. We are looking forward to hearing from you about your training consulting needs.



Technical assistance for the establishment of training centers



Instructor training



Development of training programs



Customized online courses



Technical assistance for operations and maintenance

Technical assistance for the Philippines

In the Philippines, we are taking part in "the Technical Assistance Project to Establish the Philippine Railways Institute" to establish the institute and formulate the scheme to train personnel, in turn improving their managerial capabilities, in order to establish training system for urban railway staff.



Contact us

tokyometro-online-courses@tokyometro.jp