

Training Course for Road Construction Technicians

Project Description

Name	Training Course for Road Construction Technicians (Online)		
Organizer	Beijing Jiaotong University		
Time	November 8 th -November 21 st , 2023	Teaching Language	English
Invited Countries	Developing Countries	Number of Participants	35
Organizing mode	Online	Platform	Zoom meeting
Seminar target	The purpose of this training is to enable the participants to better understand the current situation of Chinese road construction technology, share Chinese road construction technology and experience to friends from developing countries, promote industry cooperation and further deepen international friendship.		
Requirements for the Participants	Professional background	Technical managers of road construction and maintenance related professions in developing countries	
	Age	No higher than the legal retirement age in your country	
	Health	Physically fit and able to participate in online training as required	
	Teaching Language	Listening, speaking, reading and writing skills to meet the requirements of the class	
	Others	The organizer provides remote technical assistance for participation in lectures	
Seminar Content	<p>Sponsored by the Ministry of Commerce of People’s Republic of China, BJTU will host Training Course for Road Construction Technicians and training period will be from November 8th to November 21st, 2023. The core courses of the workshop include general knowledge, professional and practical courses, and the lecture format is divided into classroom lectures, on-site teaching, study tours and exchange discussions.</p> <p>Main training courses and content:</p> <p>1) Road Landscape Design: Using classroom lectures with PPT animations combined with board</p>		

books and video films, the main introduction is to train participants to fully consider the coordination of traffic landscape and environmental sustainability from an aesthetic point of view, to clarify the importance of landscape and environmental issues, to introduce the basic principles and methods of visual analysis, spatial analysis, landscape assessment, perceptual measurement of the traffic environment, to provide exposure and potential participation in state-of-the-art research, and to test new methods of visualization and modeling of road environment design.

- 2) Road and bridge engineering construction materials: using classroom lectures, combined with actual engineering cases, PPT animation combined with board books, video films, practical tools, mainly introducing the types of materials in road and bridge engineering construction, sources, uses, quality requirements, factors affecting performance, evaluation indexes of technical performance and the corresponding test methods.
- 3) Highway engineering surveying: using classroom lectures, combined with actual engineering cases, comprehensive lectures on basic concepts and knowledge of surveying, basic principles of level measurement, Chinese road engineering mapping methods and application of CAD in road engineering mapping, basic knowledge of highway and bridge, roadbed and pavement inspection technology, bridge engineering inspection technology, inspection and calibration of measuring instruments, bridge and culvert maintenance and reinforcement technology, use and maintenance of testing instruments, etc.
- 4) Road base engineering: using classroom lectures, combined with specific projects of road base engineering in China, using video introduction and PPT presentation methods, introducing the basic concepts and characteristics of road base engineering, pavement materials and applications, performance indicators and parameters, analysis theory and methods, pavement performance evaluation and prediction, the outline of MEPDG, engineering technology and essentials, etc.
- 5) Highway Pavement Engineering: Using classroom lectures, combined with relevant cases, mainly introduce the characteristics of highway pavement materials and selection requirements, pavement structural strength (stiffness) test methods, pavement engineering quality inspection and assessment methods, roadbed and pavement construction and maintenance technology, roadbed pavement engineering related to the survey, measurement, design, construction, management and other aspects of the content
- 6) Intelligent road engineering: the use of classroom lectures to train participants in road capacity, road planning and design, such as the basic theoretical system, design methods, creative awareness and innovation, so that participants master the characteristics of road traffic flow and road capacity, road network planning techniques, road design content and basic design theory of basic knowledge.

Arrangements will be made for training officials from developing countries to have online and technical exchanges with representative Chinese urban planning exhibition halls and highway

	<p>construction-related enterprises. At the same time, visits to cultural sites such as the Beijing Central Axis will be arranged to show the trainees traditional Chinese culture and the current situation of China's social development, so as to let the trainees experience a real China.</p> <p>Overall profile of the presenter:</p> <p>Shen Yupeng: Professor, Secretary and Deputy Director of the Branch of the Department of Road and Railways, School of Civil and Construction Engineering, Beijing Jiaotong University, PhD supervisor, with research interests in roadbed pavement engineering and traffic geological environment, rail transportation, road traffic transportation, transportation infrastructure, intelligent construction.</p> <p>Feng Ruiling: Professor, supervisor of PhD students in the School of Civil and Architectural Engineering of Beijing Jiaotong University, with research interests in roadbed pavement engineering and traffic geological environment, rail transportation and road traffic transportation.</p> <p>Bin Wang: Associate Professor, supervisor of master students in the School of Civil and Architectural Engineering of Beijing Jiaotong University, with research interests in line network planning, line survey design and engineering management, rail transportation, road traffic transportation.</p> <p>Zhang Yanrong: Associate Professor, PhD supervisor of School of Civil and Architectural Engineering, Beijing Jiaotong University, with research interests in rail engineering and public works management, rail transportation, road transportation, and materials engineering.</p> <p>Han Song: Associate Professor, Secretary of the Party Branch and Deputy Director of the Experimental Center of School of Civil and Architectural Engineering, Beijing Jiaotong University, Master's Supervisor, with research interests in bridge engineering and civil engineering.</p> <p>Chaoyi Xia: Associate Professor, Secretary of the Department of Bridge Engineering, School of Civil and Architectural Engineering, Beijing Jiaotong University, and supervisor of master students, with research interests in bridge engineering and civil engineering.</p> <p>Lei Junqing: Professor, supervisor of PhD students in the School of Civil and Architectural Engineering of Beijing Jiaotong University, with research interests in bridge engineering and civil engineering.</p> <p>Xiang Yangyong: Professor, supervisor of master's degree in School of Civil and Architectural Engineering, Beijing Jiaotong University, with research interests in tunnel and underground engineering, civil engineering.</p>		
Host City	Beijing	Cities to visit	Beijing
Remarks	1. The seminar will be live or recorded online, and the trainees are required to prepare network, computer, microphone, camera and other related equipment.		

	<p>2. During the teaching period, students are required to observe the teaching time and teaching discipline. The attendance record will be used as the basis for issuing the training completion certificate.</p> <p>3. Teaching discipline: The teaching discipline and requirements must be observed, and the sign-in and sign-out system shall be strictly implemented. Change the name of the individual to English (consistent with the passport) name-country abbreviation.</p> <p>4. Information security: In order to protect information security and personal privacy, please do not share the content of the class on any social media. The course materials will be sent to the students after the class.</p> <p>5. Participants need to prepare seminar materials according to the schedule.</p>
<p>About the Organizer</p>	<p>Beijing Jiaotong University is a national key university directly under the Ministry of Education, jointly established by the Ministry of Education, China Railway Corporation, and Beijing Municipal People's Government. It is China's first institution of higher education in railway based on the modern education system. It has been committed to Rail transit personnel training and scientific research, with deep rail transit personnel training and scientific research capabilities. In 2017, the school officially entered the ranks of the national "double first-class" construction, and will focus on building a world-class subject field of "smart transportation" centering on its advantageous and characteristic disciplines.</p> <p>Beijing Jiaotong University's foreign aid training began in the 1970s under the personal care of Premier Zhou Enlai to undertake training for Tanzania-Zambia railway personnel. From 2006 to 2022, our school undertook a total of 133 short-term training courses in the field of rail transit and urban and rural planning commissioned by the Ministry of Commerce, the Ministry of Foreign Affairs, the National Railway Administration, China Railway Corporation and other domestic and foreign institutions, and trained more than 3,000 students. After the training, the trainees improved their management level and professional ability, and became the backbone of business and scientific research in the field of infrastructure and rail transit in their country.</p> <p>Beijing Jiaotong University organizes international training programs for the development of human resources in developing countries. The scope covers: rail transit planning, construction, operation, management, equipment maintenance, urban and rural planning, etc. In each training session, class lectures, on-site teaching and professional visits are reasonably arranged in accordance with their own advantages and characteristics of the training target.</p>
<p>Contact of the Organizer</p>	<p>Contact: Shi Taowei (female), Wang Peipei (female)</p> <p>Office phone: +0086-10-51685457, +0086-10-51687240</p> <p>Cell phone: 18519592612 (Shi), 13269070608 (Wang)</p> <p>E-mail addresses: 812966176@qq.com (Shi), ppwang@bjtu.edu.cn (Wang)</p>

