

Safety Operation in Metro & Road Tunnel Training Course

9-12 November 2012

Venue: Shanghai Shentong Metro Training Center



Hosting Organization:



Organizer:



Supporter:



(ITA)

Safety Operation in Metro & Road Tunnel Training Course



Mr. Bai Yun



Mr. André Assis
ITACET



Mr. Niels Peter Høj
ITACET



Mr. Wang
Zhenxin



Mr. Zhou Wenbo



Mr. Fu
Deming



Mr. Yang
Guoxiang



Mr. Wang Rulu



Mr. Xu
Ruihua



Mr. Huang
Hongwei

Training Objective

The objective is to provide an introduction to the state of the art in design, construction, operation and safety management of metro and road tunnels. The seminar will provide in-depth sessions on tunnel design principles, tunnel construction technology, tunnel operation safety, disaster prevention technology and monitoring technology. The targeted participants are Owners, Contractors, Designers, Consultants, Operators and Government Supervisors.



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Tentative Programme

Date	Time	Programme	Lecturer
9 th NOV	Session 1: Modern tunnelling design methods		
	09.00 – 09.45	Design of Tunnels in Soft Soil	Wang Zhenxin
	09.45 – 10.30	Design of Deep Foundation in Soft Soil	
	10.30 – 11.00	Coffee break	
	Session 2: Modern tunnelling construction technology		
	11.00 – 11.45	Construction Technology of Tunnels in Soft Soil	Zhou Wenbo
	11.45 – 12.30		
	12.30 – 14.00	Lunch	
	14.00 – 14.45	Risk Management of Tunnelling in Soft Soil	Huang Hongwei
	14.45 – 15.30	Case Study	
	15.30 – 16.00	Coffee break	
	16.00 – 16.45	Case Study	Bai Yun
	16.45 – 17.30		
17.30 – 18.00	Questions and Answers (to all sessions)		

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10 th NOV	Session 3: Deep Foundation Construction Technology in Soft Soil		
	09.00 – 09.45	Deep Foundation Construction	Yang
	09.45 – 10.30		Guoxiang
	10.30 – 11.00	Coffee break	
	11.00 – 11.45	Case Study	Liu Guobin
	11.45 – 12.30		
	12.30 – 14.00	Lunch	
	Session 4: Design and Construction of Rock Tunnels		
	14.00 – 14.45	Design of Rock Tunnels	ITACET, Prof. A. Assiss
	14.45 – 15.30	Construction of Rock Tunnels	
	15.30 – 16.00	Coffee break	
	16.00 – 16.45	Case Study	ITACET, Prof. A. Assiss
	16.45 – 17.30		
	17.30 – 18.00	Questions and Answers (to all sessions)	

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11 th NOV	Session 5: Results of recent R&D projects		
	09.00 – 09.45	Results of recent R&D projects, tests and their relevance for safety operation	Niels Peter Høj
	09.45 – 10.30	R&D topics of the future	
	10.30 – 11.00	Coffee break	
	11.00 – 11.45	Technology and technical measures for metro tunnels, stations and rolling stock	Niels Peter Høj
	11.45 – 12.30	Integration and use of advanced supporting technology	
	12.30 – 14.00	Lunch	
	14.00 – 14.45	Management of metro	Wang Rulu
	14.45 – 15.30		
	15.30 – 16.00	Coffee break	
	16.00 – 16.45	Metro Signal Technology and safety analysis	Zhu Xiang
	16.45 – 17.30		
	17.30 – 18.00	Questions and Answers (to all sessions)	

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12 th NOV	Session 6: Metro Operation		
	09.00 – 09.45	Structure, management of metro	Xu Ruihua
	09.45 – 10.30		
	10.30 – 11.00	Coffee break	
	11.00 – 11.45	operation of safety and emergency forces	Xu Ruihua
	11.45 – 12.30		
	12.30 – 14.00	Lunch	
	Session 7: Fire control in Metro and Road Tunnels		
	14.00 – 14.45	Ventilation systems	Zheng Jinli
	14.45 – 15.30	Fire detection systems, passive/active fire fighting, fixed fire fighting systems	
	15.30 – 16.00	Coffee break	
	Session 8: Metro Safety		
	16.00 – 16.45	Case Study	Fu Deming
	16.45 – 17.30		
17.30 – 18.00	Questions and Closing Remarks		