

Global Seismological Observation グローバル地震観測		Continuing	
Target Countries : Mainly the CTBT Annex 2 States which have not signed/ratified the treaty.			
Course No. : J1804441		No. : 1884998	
Sector : Water Resources/Disaster Management/Earthquake Disaster			
Sub-Sector :			
Language : English			
Outline			
Towards the early entry into force of the CTBT, the Gov. of Japan conducts a group training course on Global Seismological Observation which deals with seismological observation and its application to nuclear test monitoring, aiming at introducing up-to-date technologies and knowledge on the subject to participants who are expected to play important roles in those fields.			
Objective/Outcome		Target Organization / Group	
<p>【Objective】 To acquire knowledge and advanced techniques of global seismological observation for playing important roles in the monitoring system of nuclear tests.</p> <p>【Outcome】 1. To acquire knowledge of the CTBT regime and the role of seismology in the International Monitoring System(IMS). 2. To understand global seismological observation technologies for monitoring nuclear tests and earthquakes. 3. To acquire data analytical techniques to discriminate nuclear tests from natural earthquakes. 4. To make an Action Plan (Project Proposal) which they should do in their country after a homecoming.</p>		<p>【Target Organization】 This course is designed for administrative officers who are expected to play important roles in a global monitoring network on nuclear tests.</p> <p>【Target Group】 1 More than 3 years' experience in the relevant field. 2 Well versed in basic mathematics such as differentiation and integration.</p>	
Contents			
<p>[Preliminary Phase] To make an Inception Report on the current situation of the global seismological observation in their country.</p> <p>[Core Phase in Japan] To understand the overall view of the global seismological observation through lectures, practical exercises and site visits. (1) Outline of CTBT and IMS -Introduction of CTBT Regime concerning seismology, etc. (2) Seismological Observation, National Data Center -Seismometer, Seismic Network. Design of Seismic Network, National Data Center (3) Data Processing, Data Analysis, Nuclear test identifying method -Retrieval of Digital Seismic Data and Disposal of Format, Introduction to UNIX, Analysis of Teleseismic waves, Seismic Array Data Analysis, Discrimination by mb-Ms, Seismicity and Tectonics, etc. (4) Formulation and Discussion on Action Plan -Making an Action Plan, and Presentation of Action Plan</p>		Course Period	2019/1~2019/3
		Department in Charge	Global Environment Department
		JICA Center	JICA Tsukuba
		Cooperation Period	2016~2018
Implementing Partner	Building Research Institute		
Remarks and Website	IISEE Web Site: http://iisee.kenken.go.jp/		