Enhancement and Dissemination of Earthquake-resistant Technology for Buildings in Latin American Countries
中南米 建物耐震技術の向上・普及

Continuing

Target Countries : Earthquake prone coutries in Latin American

Course No. : 201984483-J002

No. : 201984483

Sector : Disaster Risk Reduction/Earthquake Disaster

Sub-Sector :

Language : Spanish

Outline

Latin America is a quake prone region. However, technology of earthquake-resistant construction is not yet popularly used in the area, and building collapse causes huge impacts on human suffering and property damage. This course aims to reducedamage from future earthquakes by enhancing and disseminating the earthquake-resistant construction technology in the participants' countries.

Objective/Outcome

【Objective】
Participants develop and start working on Action Plans to disseminate earthquake resistant technology and system based on learned approaches of seismic design, construction, diagnosisand retrofitting for buildings.

【Outcome】
1. To analyze issues on earthquake resistant construction in participants' country.
2. To understand fundamentals of earthquake engineering and seismic design methods.
3. To understand earthquake-resistant technology by types of structure, such as RC or masonry construction.
4. To understand the techniques for seismic diagnosis and retrofitting.
5. To understand the construction approval, authorization and disseminating system and frameworks of training programs of structural and construction engineers.
6. To develop Action Plan to promote earthquake-proof construction in participant's country.

Target Organization / Group

【Target Organization】
Government or related organizations responsiblefor earthquake-resistant technology, universitiesor training institutions in the field.

【Target Group】
1. Educational background: be university graduate or equivalent,
2. Working experience: have over five years in earthquake engineering,
3. Current duties: be responsible for dissemination or education of earthquake -resistant construction technology

Contents

1. Preliminary Phase: (1)Preparation of Inception Report (IcR).
2. Phase in Japan: (1)Presentation of IcR. Discussion on problems in seismic construction.(2)Lectures on introduction of Earthquake Engineering and Structural Engineering. (3)Lectures on RC construction, response control and seismic isolation. structural experiment and visits to construction sites. (4)Lectures and site visits on diagnosis and retrofitting. (5)Lectures on construction approval, authorization and disseminating system and frameworks of training programs of structural and construction engineers. (6)Preparation, presentation, discussion of Action Plan.
3. Third Country Training: (1)Lectures on masonry construction, structural experiment and site visits.
4. Finalization Phase: (1)Sharing training outcome, finalization of Action Plan.

Course Period	2019/5/14～2019/7/13
Department in Charge	Global Environment Department
JICA Center	JICA Tsukuba(Training)
Cooperation Period	2017～2019
Implementing Partner	Building Research Institute
Remarks and Website	1. University professors and lecturers are included in the target.