



Human Resources Training Programme for Disasters Risk Reduction for Latin America  
and the Caribbean

## **V INTERNATIONAL COURSE**

**Seismic Design Criteria in Bridge Structures**  
**Santiago de Chile**  
**From July 29<sup>th</sup> to August 14<sup>th</sup>, 2019**





## **BACKGROUND**

The Chile and Japan governments, through its International Cooperation Agencies AGCID and JICA, respectively agree to carry out the Kizuna's Project "Human Resources Training Programme for Disasters Risk Reduction for Latin America and the Caribbean" in the context of the Japan-Chile Partnership Programme (JCPP) in cooperation with the National Office for Emergencies (ONEMI) as technical project manager.

The Programme aims to strengthening professional capacities focused on prevention and disaster risk reduction. To achieve it, study programmes will be offered which complement different training needs, master's degrees, diplomas, and international courses that are known for their high quality and specialisation.

Furthermore, we will count on Japanese experts who will contribute different specialities of risk management, to strengthening foreigner's professional knowledge, as well as presenters and Chilean institutions.

Kizuna hopes to develop a widespread transfer of experiences and skills among countries from Latin America and the Caribbean, as well as creating networks linked to training programme topics, provided by academic institutions, both private and public.

Finally, it seeks to address the scale of risk to natural disasters in its different areas, such as: urban rescue, early warning, and tsunami risk management; infrastructure, forest fire management, bridging seismic design, river basin management, ports business continuity plan, seismology, among other things. Training and development programmes are carried out by universities and national sectors that have developed expertise in the relevant area.



## **GENERAL INFORMATION (G.I)**

### **I. SUPERIOR GOAL**

The Latin American and Caribbean participants improve their skills for the bridge seismic design rules and regulations update.

### **II. COURSE GOAL**

The Latin American and Caribbean participant professionals improve their knowledge about the seismic design of bridge structures.

### **III. RESULTS**

The participant will acquire the following knowledge, skills and ability:

- Seismology concepts and bridge structure.
- Seismic design method for bridge structure.
- Damage analysis and bridge structure repairation.
- Suitable Action Plan development for the institution's necessities and country of origin's necessities.

### **IV. LENGTH**

The Course is carried out for five (5) years beginning in the Japanese fiscal year (AFJ) 2015 to 2019. The fifth edition of the course will take place from July 29<sup>th</sup>, 2019 to August 14<sup>th</sup>, 2019 in Santiago de Chile.

### **V. METHODOLOGY**

Face to face classes, field trips and visit to laboratories (See Appendix VI: Programme).

### **VI. LANGUAGE**

The International Course will be taught totally in Spanish, except when a Japanese expert takes part. Under these circumstances, he/she will have an interpreter.

### **VII. FUNDING**

The Course will fund:

- Tuition cost and tuition fees



- Round trip tickets from the main airport in the home country to where the Course<sup>1</sup> will be carried out (stopovers inside the home country must be financed by the participant.)
- Transfer from the airport to the hotel.
- The establishment accommodation by Kizuna Project Management (it will be sent to selected candidates in advance).<sup>2</sup>
- Daily allowance of USD 30 USD food.
- Health insurance for medical assistance to the grant holder, in case of accident in Chilean territory, if you stay in Chile. It does not cover pre-existing conditions.
- Transport to field trips

\*No further financing additional item to items mentioned above.

## **VIII. IX. REQUIREMENT FOR APPLICATION**

Candidates must:

1. To be appointed by the government through the respective Focal Point (see Section XI: Application Process.)
2. To be a citizen of the country called.
3. To have the support of the public institution which you belong to, to spread, formulate, carry out, supervise, and evaluate the final institutional action plan.
4. To have a university degree at least three years prior to the application date. Degrees: Civil Engineering, Geology Engineering, Architecture, Civil Construction or technical professionals according to the area (it considers degrees with eight semesters).
5. Be a public employee and work in areas related bridge engineering.
6. Two (2) years of experience in the areas mentioned above.
7. To present a country report and an initial institutional action plan profile to be checked and improved in the Course.
8. Spanish language skills at reading level and oral comprehension.

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<sup>1</sup> The ticket must be acquired in economy class according to the dates and schedules determined by the Kizuna Project Management.

<sup>2</sup> A change of establishment will not be allowed and will not cover personal expenses at the hotel.



9. To not being part of any military institution or be linked to a Defence/National Security institution.
10. To be psychologically and physically healthy. Pregnant candidates must present a medical certificate accrediting their participation on the Course, and without risks to their health.
11. To present an academic and professional profile review (see Appendix I: Application Form.)

#### **IX. COUNTRIES AND ORGANISATIONS INVITED**

The governments of the following countries and regions will be invited to nominate candidates to the International Course. **Argentina, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Mexico, Panama, Paraguay, Peru, Dominican Republic, Uruguay and CARICOM member countries.**

#### **X. TOTAL NUMBER OF PARTICIPANTS:**

For the Course, the number of participants per invited country must not exceed 20 in total. There is no pre-established quota per country.

#### **XI. APPLICATION PROCESS**

Candidates must present their application with all requested information handed in on paper, and digital format on a CD to the relevant Focal Point in the home country (see Appendix V.) Candidates must present the following documents:

- Application form (Appendix I), registration of all requested information, filled out, and signed by the candidate as well as the highest authority of the sponsoring institution.
- Country Report and Action Plan (Appendix II) used by the project profile guidelines (Appendix III). You must fill in the first five columns to apply.
- Letter of Commitment (Appendix IV).
- Labour Certificate (Appendix V) signed by the corresponding headquarters, and the institution stamp.
- Candidates who are not Spanish speakers must submit a command of Spanish certification.
- Pregnant candidates must present a medical certificate accrediting their participation on the Course, and without risk to your health.

Candidates must present their application with all the requested information handed in on paper, and digital format on a CD (copy with respective signatures and stamps) to the



relevant AGCID Focal Point in the home country (Appendix V) to the corresponding formalization. At the same time, without validity, each candidate must have a copy of scanned documents (respective signatures and stamps) to the International Course Director of the organising institution, MOP, e-mail [sop.coordinacionacad@mop.gov.cl](mailto:sop.coordinacionacad@mop.gov.cl).

The call for the Course starts on April 15<sup>th</sup>, 2019, and ends on May 3<sup>rd</sup>, 2019, according to the following programme:

Phase	Dates
Opening date	April 15 <sup>th</sup> , 2019
Closing date (for applicants)	May 17 <sup>th</sup> , 2019
Candidate's pre-selection and application to Grant Platform (for Focal Point)	May 20 <sup>th</sup> to 24 <sup>th</sup> , 2019
Selection committee	May 27 <sup>th</sup> to 29 <sup>th</sup> , 2019
Publication of results and notification to selected candidates	June 12 <sup>th</sup> , 2019

The final date for receiving applications to the grant expires on **May 17<sup>th</sup>, 2019**. **THE DATE FOR SENDING DOCUMENTS TO THE FOCAL POINT MAY VARY IN EVERY COUNTRY. THEREFORE, THE DEADLINE SHOULD BE VALIDATED BY THE HOME COUNTRY OF EACH APPLICANT** in accordance with Appendix V contacts.

#### TO CONSIDER:

- An incomplete, illegible or an application received after the deadline will not be processed.
- Only official submitted applications from the Focal Point will be evaluated. No application sent by directly by a candidate will be considered.
- It is the responsibility of the candidates to read carefully the call with all its requirements, application process, and all accompanying documents, as well as presenting a candidature which meets the professional demands specified in each offer.



- The information given on the Application Form and its appendixes, are of an affidavit nature, so in case of giving false information, hiding information or inaccurate information to get the grant, the candidate will accept the administrative sanctions, civil and penalty, according to the country regulations. Furthermore, the candidate will not apply to new calls indefinitely. These situations must be reported to the committee set up for the grant implementation.

## **XII. SELECTION**

Selection will be carried out by a technical committee between JICA, AGCID, and Ministry of Public Works based on the following selection criteria: admissibility, Focal Point priority, if you fulfil the profile, professional experience in the Course area, curriculum consistency, and possibility of the impact, among other things that Committee considers appropriate.

The selection result will be shared on the AGCID website, [www.agci.cl](http://www.agci.cl) for information for all interested parties, at least two months before the start of the course. The Academy of Public Works will notify each selected participant<sup>3</sup>, to confirm the grant and coordinate its participation.

The deadline to accept or refuse the grant is up to five (5) working days. If you do not receive an e-mail inside the deadline, the Selection Committee will understand the non-acceptance, and the respective Committee will award the grant to another short-listed candidate.

**The result of who is awarded a grant are exclusive resolutions of the Selection Committee. These decisions are not subject to appeal.**

## **XIII. PARTICIPANT'S OBLIGATIONS**

- Participants are responsible for handing in current contact information (Appendix I: Application Form) and regularly checking e-mail in case they receive requests and official announcements by the coordinator about dates mentioned above in numeral XI.
- The Course is face-to-face and with exclusive dedication and minimum attendance of 90% to pass.
- To carry out all the necessary paperwork for your participation on the Course, including getting a visa if necessary.

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<sup>3</sup> The selected candidate will be notified by e-mail, according to the information provided by the candidate on the Application form (Appendix I).



- Participants will be dedicated to the Course programme Requests to change or interruptions in the initially established course programme course will not be accepted, as well as extended stay or ticket changes (except for a justified emergency).
- The participant must travel alone without chaperones or family members. When you arrive at Santiago International Airport, a person from the travel agency will be waiting for the foreign participant. The travel agency will take you to your accommodation. The time between the airport and the hotel is approximately 40 minutes.
- Additional taxes not included in the air ticket, will be responsibility of the grant holder, he/she will make the corresponding payment.
- Participants will be responsible for possible expenses during travel between their country or region and Santiago de Chile. (The grant does not pay stopovers.)
- Participants must undertake any personal expense during the Diploma Course which is not specified in the FUNDING section.
- We recommend you bring formal clothes to the Opening Ceremony and Closing Ceremony. Additionally, bring the appropriate clothes for field activities.
- On the first day of the Course, participants will do a presentation about their Action Plan, and a brief summary of the bridge situation and roads situation infrastructure in their country, according to the Appendix II and III instructions.
- Participants on the international Course will share acquired knowledge and acquired experiences in Chile with their institution at home. Participants are committed to implementing and improving the Action Plan suggested after finishing the Course. That is to say, you must present it to the respective headquarters, request the necessary support, to carry out appropriate adjustments and the scheduled activities execute as far as possible.  
The Academy of Public Works will ask questions about progress status of the Action Plan of the previous participants, after returning to their country. Promptly, the grant holders are committed to handing reliable information about their situation.

#### **XIV. ADDITIONAL INFORMATION**

- The currency in Chile is the Chilean Peso (CLP). You can check the value online, for example at [www.sitios.cl/finanzas](http://www.sitios.cl/finanzas).
- Santiago has a Mediterranean climate, with distinct seasons. The Course is in winter. The weather in July and August is cold, and the temperature ranges from between 3° and 16° C and occasional rains. Make sure you check the weather on the Internet, ([www.meteochile.cl](http://www.meteochile.cl)) before travelling to make sure you bring appropriate clothes according to the season.
- We recommend you bring formal clothes to the Opening Ceremony and Closing Ceremony. Additionally, bring appropriate shoes and clothes for the field activities.





- The allowance considers the day of arrival day and it is convenient to bring Chilean in pesos cash for food and first night expenses (the allowance is handed out on the first day of the course).
- Make sure you bring your laptop for course work.



## **CONTACTS**

Ministry of Public Works (MOP)

Academy of Public Works.

Morandé 45, Santiago, Chile.

(+56 2) 2449 3134

[sop.coordinacionacad@mop.gov.cl](mailto:sop.coordinacionacad@mop.gov.cl)

Chilean International Cooperation Agency (AGCI)

Teatinos 180, Floor 8. Santiago, Chile

(+56 2) 2827 5700

[agencia@agci.gob.cl](mailto:agencia@agci.gob.cl)

Japan International Cooperation Agency (JICA)

Apoquindo 3846 of. 201, Las Condes.

(+56 2) 2905 1692

[vera.natalia.Ci@jica.go.jp](mailto:vera.natalia.Ci@jica.go.jp)

## **APPENDIXES**

Appendix I: Application Form

Appendix II: Country Report Guideline and Action Plan Guideline

Appendix III: Action Plan

Appendix IV: Participant Commitment

Appendix V: Focal Points

Appendix VI: Preliminary Programme

Appendix VII: Labour Certificate



## APPENDIX I

**APPLICATION FORM**  
**INTERNATIONAL COURSE**  
**'SEISMIC DESIGN CRITERIA IN BRIDGE STRUCTURES'**  
Santiago, Chile. From July 29<sup>th</sup> to August 14<sup>th</sup>, 2019.

### OFFICIAL APPLICATION FORM

*(To be signed and confirmed by the highest authority of the institution)*

### COUNTRY AND CITY

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### INFORMATION OF THE INSTITUTION

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This organisation recommends the current application according to the regulations of the Kizuna Project "Human Resources Training Programme for Disaster Risk Reduction for Latin America and the Caribbean", related to the call and its corresponding general information. In case the application is accepted, the candidate is authorised to travel to Chile on the dates determined by the organisers of the course. Once the candidate is back, the organisation committed to providing the necessary support for a correct application and the sharing of the acquired knowledge.

Given names		Official Stamps
Post		
E-mail		
Date	Signature and stamp of the headquarters who approve it	

## PART A: INFORMATION FROM THE INSTITUTION

### 1. Institution profile

#### a) Name of the organisation

#### b) Type of organisation (mark “x” in the relevant option)

Government	<input type="checkbox"/>	Academic	<input type="checkbox"/>	Private	<input type="checkbox"/>	International	<input type="checkbox"/>	Other*	<input type="checkbox"/>
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\*If “other”, please indicate type of organisation:

#### c) Mission of the organisation

#### a. Connection with international cooperation (mark “x” in the relevant option)

Japan	<input type="checkbox"/>	Chile	<input type="checkbox"/>	Other sources	<input type="checkbox"/>	None	<input type="checkbox"/>
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In case of some form of cooperation, please briefly describe the main activities and the international cooperation institution:

2. The aims of the application

- a) Please describe the strategic aims of institutions associated with the development of buildings in public infrastructure.

- b) Please briefly describe how training will support the achievement of the objectives mentioned above.

- c) Please briefly describe the concrete actions which the institution will carry out to achieve or complement the objectives mentioned above.

- d) Please briefly describe the reasons why the candidate has been selected, referring to: 1) course requirements, 2) ability/post or responsibility for the institution, 3) action plans or others.

## PART B CANDIDATE INFORMATION

### 1. Personal information.

Last names*				
Given names				
Nationality				
Date of birth				
Sex	Male		Female	
Passport number				
Passport expiry date				
Home address				
City				
Contact telephone number				
Contact e-mail				

\*Give information as stated in the passport and a copy of it.

\*\*All information in case of selection will be sent to this e-mail address. Please give an email that you continually check.

### Person to notify in case of emergency.

Last names				
Given names				
Relationship to candidate				
Home address				
Contact phone number				
Contact e-mail				

### 2. Academic information

(As of university studies only. Attach the copy of documents)

Degree obtained	Institution	Country	Period		Graduation date
			From	Until	



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Other courses and training programmes  
(Attach copy of certificates and certifications)

Course	Institution	Country	Period	
			From	Until

Have you been beneficiary of a grant previously?

Yes \_\_\_\_\_ No \_\_\_\_\_

Give details if the answer is "Yes":

Grant	Country where you studied before	Programme followed

Have you been beneficiary of a JICA grant previously?

Yes \_\_\_\_\_ No \_\_\_\_\_

Which? \_\_\_\_\_

Have you fulfilled as a JICA holder grant?

\_\_\_\_\_

## PART B : CANDIDATE INFORMATION

### Professional information

1) Actual post (Position and institution)

2) Job description

3) Professional experience

Post* (From most to least recent according to academic activity)	Institution	Country	Period	
			From	Until

\*Please briefly describe the activities.

4) Self-assessment of disaster risk reduction

Please describe experience of the last projects related to disaster risk reduction in which you participated.



PROFILE OF PROFESSIONAL SKILLS		MARK  Scoring range 1 to 5
<b>Self-assessment according to the following subject matter knowledge</b>		
1	Tectonic plates and seismic movements	
2	Building structure behaviour in the presence of seismic events.	
3	Hydraulic forces, earth pushes, seismic loads, and structure elements basic definitions. In addition to the technology used to evaluate affected loads.	
4	Components and conditions to determine floor liquefactions.	
5	Foundations regarding bridge engineering	
6	Policies, criteria, procedures and methods for the necessary conditions to build bridges in Chile.	
7	Bridge seismic design regulations considering strength, methods and structure details.	
8	Damage analysis and bridge structure repair.	
9	New bridge seismic design technologies, use of isolators and supervision.	
10	Chilean and Japanese seismic events analysis with bridge structure damage, efficient solutions to emergency repair or reconstruction.	
11	Use of Software SAP2000 in the bridge structure model.	
12	Minimum concept of Hydraulics and hydrology to the bridge design.	
13	Action Plans implementation and training.	
<b>AVERAGE</b>		

## PART C: MEDICAL HISTORY

(If you present any health condition mentioned below, you must present a medical certificate.)

1. Do you currently use any medication for the treatment of any medical condition?

Yes

☐

Which?

*Medicine's name and dose*

No

☐

2. Are you currently pregnant?<sup>1</sup>

Yes

☐

Months

*Specify months of pregnancy*

No

☐

3. Are you allergic to any medicine or food?

Yes

☐

No

☐

4. if the answer to question 3 is "Yes", what kind of allergy?

Medicines

☐

Which?

*Name of the drug*

Foods

☐

Which?

*Name of the food*

Other

☐

Which?

*Specify*

5. Do you have any of the following health conditions?

- High Blood Pressure

Yes

☐

No

☐

*Observations*

- Diabetes

Yes

☐

No

☐

*Observations*

- Breathing Problems

Yes

☐

No

☐

*Observations*

- Digestive Problems

Yes

☐

No

☐

*Observations*

6. Additional condition or pre-existing (specify relevant information such as dietary restrictions, allergies, among other things).

*Specify other relevant information that the organisation should know to safeguard its welfare.*

<sup>1</sup> **Important note:** In case a candidate is pregnant and in order to minimise the risk to her health, the following documents are required without fail: (1) Letter of consent to undertake economic and physical risk; (2) Letter of consent from the participant's supervisor; and (3) Letter of agreement with the participation in the diploma course from a doctor.



I certify that I have read the instructions above, and I have handed in the requested information. I understand and agree that an uninformed pre-existing medical condition could result in the early ending of my participation on the course and it is my responsibility.

### DECLARATION

(to be signed by the candidate)

NAME	DATE	SIGNATURE

### AFFIDAVIT VERACITY OF INFORMATION

I declare that I have read the call, its instructions, and appendixes, and the information provided in this form is completely accurate and corresponds to everything which has been requested.

NAME	DATE	SIGNATURE

### AFFIDAVIT OF MANAGEMENT OF SPANISH LANGUAGE

I declare to have oral and written skills in the Spanish language. \*  
(Only for countries that are not Spanish-speaking)

NAME	DATE	SIGNATURE

\*Attach supporting documentation, as well as, accreditation exam if you have one.

## **APPENDIX II**

### **COUNTRY REPORT GUIDELINE AND ACTION PLAN GUIDELINE**

#### **INSTRUCTIONS**

##### **1) COUNTRY REPORT:**

The country report is a description and analysis about the country situation, the current and main policies, programmes, projects, studies and norms. It is focused on solving the problems in the country in road and bridge infrastructure.

Country Report Structure:

It must contain the following subheading (handed in a Word Document).

- a. Identification about the participant and the sponsor institution.
- b. Executive summary (2 pages maximum.)
- c. Introduction.
- d. A description and analysis about the actual situation (point on and comment on the main and current policies, programme, project or studies focussed on solving problems in the country in the fields of roads and bridge infrastructure, caused by natural disasters.)
- e. Conclusions.

##### **2) ACTION PLAN**

As a contribution to the previous point, register, as a profile, the required information on the first five pages (5) of the Action Plan columns (Appendix III).

- a) Goals to achieve:
- b) Projects, actions or tasks to carry out the pointed-out goals
- c) Each project, task or action has a start and end date
- d) Management indicators
- e) Goals committed to fulfilling each management indicator

##### **3) OTHER RELEVANT INFORMATION:**

Add any relevant data or relevant information which explains your Action Plan, and which is not here or on the Country Report.

*NOTE: If you are selected, you will do a Power Point presentation with a maximum of 5 slides about the Country Report Executive Overview, as well as Action Plan. It must not exceed 10 minutes.*

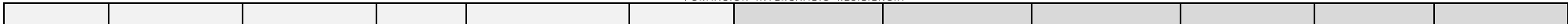


## APPENDIX III

**2019-2020 ACTION PLAN TO IMPROVE THE INSTITUTIONAL CAPACITIES  
WHICH ALLOW AN EFFECTIVE REGULATION UPDATE OF SEISMIC DESIGN IN BRIDGES.**

**ACTION PLAN FUNCTIONAL GOAL:** to set up an instrument which, upon organising and structuring all its components, facilitates and allows the effectiveness of planning, carrying out, monitoring and evaluation of the necessary actions to achieve an improvement in the capabilities which are required to update the seismic bridge design regulations.

[illegible]



## INSTRUCTIONS

1.- This course is classified as the “Human Resources Training Programme for Disaster Risk Reduction for Latin America and the Caribbean” and upon drafting the Action Plan the aim of the course must be used as a reference: “Participating countries from Latin America and the Caribbean improve their skills for regulations updates in seismic design in bridges”.

3.- Among the projects, activities and/or tasks to be defined in the Action Plan, those necessary for carrying out a continuous broadcasting process must be included by means of a regular Flow of information about the advance of the promised actions, in such a way that those involved get to know the current state and based on it, lend the due support.

4.- For every day and agreed use purposes which implies the creation, carrying out, monitoring and evaluation of the action plan, the attached glossary must be used as an appendix.

5.- Taking into account that each columns and row in the Action Plan table must contain a summary of the requested information, it is necessary to specify other facts and description which must include texts or foot notes.

7.- If it is necessary for the Action Plan administration, once it has been approved, to count on literal report, the table can be used as a guide to draw it up, since it allows us to describe each of the components with its logic and sequence of the whole administration process.

8.- Upon completing the table with all the necessary information from the Action Plan in order and in a single structure, it must be used to have a global vision of the plan and with it try to carry out a completer and more coordinated carrying out, control and evaluation process.

9.- The table will be used for the class process and development Support and Action Plan update by the participants, both at their learning stage and knowledge, skills, attitudes and acquisition stage, as well as at the application stage of what they have learnt, whose result should be the final Action Plan.



## **GLOSSARY**

The following conceptualisation has been developed to make the Action Plan formulation, carrying out, monitoring and evaluation more functional:

**ACTIVITY:** The combination of operations and tasks unique to a person or entity.

**CONTROL:** To check that what has been carried out corresponds to what has been programmed.

**MARKETING:** Activity of spreading or sharing knowledge, news, attitudes, customs, habits etc. in this case the Action Plan.

**CARRYING OUT:** To carry out an activity, a plan, a policy or a project.

**INDICATOR MANAGEMENT:** Measurement unit or metre which allows us to check the consequences or the results of the actions which were or are being carried out.

**MEANS OF VERIFICATION:** Information sources such as published material, visual inspection, surveys, information registers, statistical reports etc. which back up information which allowed us to calculate the administration indicator of the Action Plan advance.

**GOALS TO ACHIEVE:** Quantified objective, that is to say, to point out the concrete contribution based on the diagnosed problem in the action plan, including deadlines, beneficiaries; etc.

**AIMS:** Concrete contribution which the Action Plan will carry out to solve the problem. For composition purposes you must take into account that an objective is: the purpose which is achieved by means of carrying out one or more activities.

**PROJECT:** As a planning instrument, it is made up of the detailed description about the situation diagnosis or problem which creates the need itself; the objective to achieve to solve the problem; the activities to carry out, the methodology which will be used to carry out these activities; the team profile responsible for carrying it out, initial and final deadlines of each activity and its cost. Its aim is that the product or service to be achieved by carrying it out, is done with the best quality, in the shortest time and at the lowest cost possible.

**SUPERVISION:** Superior and/or hierarchical inspection exercise regarding the work done by others.

**SUPPOSITION:** It describes the necessary conditions to achieve the Action Plan objectives and what is out of the administration of the institution's control which is responsible for carrying out the Action Plan.

**TASK:** Work or specific operation which forms part of an activity and which must be done in a determined period of time.



## APPENDIX IV

### CANDIDATE LETTER OF COMMITMENT

As a candidate to the grant of the Fifth International Course 'Seismic Design Criteria in Bridge Structures' of the 'Human Resources Training Programme for Disaster Risk Reduction for Latin America and the Caribbean.'

I \_\_\_\_\_  
(Candidate's name)

From \_\_\_\_\_  
(Country of origin)

I declare that all information provided on this form is completely truthful, accurate, and complete, and in case of being awarded the grant, I commit myself to respecting the following regulations:

- a) To strictly enforce the Course Programme.
- b) To accept all the stipulated conditions regarding the course.
- c) To observe the instructions provided in the development of the course.
- d) To avoid extending the training period established by the organising institutions.
- e) At the end of the course, return to my country according to the scheduled established by the organising institutions.
- f) Not travel or remain in Chile accompanied by a family member or another person.
- g) Attach medical certifies that certify good physical and mental health suitable with the course. I cannot be part of the programme in case of illness or pregnancy.
- h) Suspend the course due to circumstances beyond my control and which have been duly informed.
- i) Not having a non-exit order, or any case of judicial nature which can block my departure or entry to Chile.
- j) You must have all international documentation needed to enter and leave Chile, according to bilateral agreements between governments
- k) Return to my country, handed in to my institution the Action Plan elaborated on the Course, and encourage it to be carried out. According to the requirements of MOP Chile, report the process.
- l) Once selected, in the event of desisting to participate on the Course, let the course coordinators know with a minimum of 10 days' notice before the beginning of course, pointing out the reasons of force majeure which lead to that decision.
- m) Not to use knowledge or skills acquired through the training for hostile purposes.



Place and date

Candidate's signature

## APPENDIX V

### Focal Points

COUNTRY	NAME	LAST NAME	POST	INSTITUTION	ADDRESS	CITY	E-MAIL	PHONE
ARGENTINA	Laura	Satragno	In charge of postgraduate grant	Directorate General for International Cooperation - Ministry of Foreign Affairs, International Trade and Worship	Esmeralda 1212, 12 <sup>th</sup> Floor, Of. 1207.	Buenos Aires	<a href="mailto:becasinternacionales@mrecic.gov.ar">becasinternacionales@mrecic.gov.ar</a>	+54 (11) 48197460
ARGENTINA	Juan José	Graciano	In charge of courses	Directorate General for International Cooperation - Ministry of Foreign Affairs, International Trade and Worship	Esmeralda 1212, 2 <sup>th</sup> Floor, Of. 1207.	Buenos Aires	<a href="mailto:jjo@mrecic.gov.ar">jjo@mrecic.gov.ar</a> ; <a href="mailto:becasinternacionales@mrecic.gov.ar">becasinternacionales@mrecic.gov.ar</a>	+54 (11) 48197282
BOLIVIA	Guillermo	Delgado	In charge of grants	Plurinational Public Management School - EGPP - Ministry of Education	Bolívar Street n°724 esq. Indaburo	La Paz	<a href="mailto:gdelgado@egpp.gob.bo">gdelgado@egpp.gob.bo</a>	591-2-2200353 extension 40
BOLIVIA	Karina	Villarroel	Disemination of Grants	Plurinational Public Management School - EGPP - Ministry of Education	Bolívar Street n°724 esq. Indaburo	La Paz	<a href="mailto:kvillarroel@egpp.gob.bo">kvillarroel@egpp.gob.bo</a>	591-2-2200353 extension 41
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URUGUAY			Grant Area	Uruguayan International Cooperation Agency AUCI	Executive Tower (Plaza Independencia 710, 7 <sup>th</sup> Floor.	Montevideo	<a href="mailto:becas@auci.gub.uy">becas@auci.gub.uy</a>	+598 (2) 3402-3403
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## APPENDIX VI

# PRELIMINARY PROGRAME INTERNATIONAL V COURSE

## ‘SEISMIC DESIGN CRITERIA IN BRIDGE STRUCTURES’

From July 29<sup>th</sup> to August 14<sup>th</sup>, 2019

Santiago de Chile





## **GENERAL FRAMEWORK**

The aim of the 'Seismic Design Criteria in Bridge Structures' course is that participating countries from Latin America and the Caribbean can improve their skills in the rules and regulations updates about seismic design for bridge structures.

The Course considers an editions cycle between 2015 and 2019. The fifth edition aims to strengthen knowledge, skills, and the necessary attitude to improve bridge structures regarding natural disasters in Latin America and the Caribbean through the analysis and experiences acquired in Chile and Japan in this field.

This Course is aimed at professionals in this area. It has twenty (20) participant members from public entities in Latin America, the Caribbean, and CARICOM. Furthermore, five (5) Chilean participants.

This Course will be held from July 29<sup>th</sup>, 2019 to August 14<sup>th</sup>, 2019 in Santiago de Chile. It includes theoretical classes, workshops, visits to laboratory and bridge structure site inspection in the field.

It is expected that carrying out this course contributes to natural disaster risk reduction in the participating countries and improved their administration. The specific contribution of professionals who participate in the course, it will become a reality through the development and implementation of action plans aimed at legislation update of bridge seismic design at the institution of each country, as well as acting upon them depending on the characteristic of each countries.

# **INTERNATIONAL COURSE SEISMIC DESIGN CRITERIA IN BRIDGE STRUCTURES**

PRELIMINARY CURRICULUM 2019 INTERNATIONAL COURSE

‘SEISMIC DESIGN CRITERIA IN BRIDGE STRUCTURES’

## **A. COURSE PROGRAMMED ACTIVITIES**

### **1. BASIS OF BRIDGE SEISMIC ENGINEERING**

- 1.1. To provide knowledge about tectonic plates and seismic movements.
- 1.2. To identify the behaviour of structures facing different kinds of disasters.
- 1.3. To contribute with background of soil mechanics in liquefaction. To determine their conditions and components.
- 1.4. To contribute with applied hydraulics concepts for the bridge structure design.
- 1.5. To provide basic definitions of structural elements, seismic loads, earth pushes, and hydraulics force.

### **2. SEISMIC DESIGN METHOD FOR BRIDGE STRUCTURES**

- 2.1. To provide the main basis about bridge engineering.
- 2.2. To explain in general terms to the participants, the politics, criteria, procedures, and method which provide conditions for the construction of bridges in Chile.
- 2.3. To introduce participants to seismic design guidelines of bridges in Chile.

### **3. DAMAGE ANALYSIS AND BRIDGE STRUCTURE REPAIRS**

- 3.1. To introduce participants to new bridge seismic design methodologies, using isolators and supervision.
- 3.2. To analyse Chilean and Japanese seismic events with damage to bridge structures, providing efficient solutions for emergency repair or reconstruction of bridges.

### **4. ADEQUATE ACTION PLANS DEVELOPMENT FOR INSTITUTION'S NEEDS AND THE COUNTRIES OF ORIGIN.**

- 4.1. Presentation of action plan and country report by the participants.
- 4.2. To supervise and support the participants working on the Action Plan.
- 4.3. Presentation of the improvement of the Action Plan on behalf of the participants.
- 4.4. To keep under observation Action Plans
- 4.5. To evaluate Action Plans



**Appendix VII**  
**LABOUR CERTIFICATE**

The signer, certifies that Mr/Mrs/Miss \_\_\_\_\_, national identification N° \_\_\_\_\_, is currently working at the institution \_\_\_\_\_, in specific functions referred to in detail below, during the time pointed out.

<b>ACTIVITIES</b> (describe in detail the responsibilities carried out during the period, and in the case of being in charge of people, please point out the number of employees.)	From month/day/year	Until month/day/year

If you are selected for the Human Resources Training Programme for Disasters Risk Reduction for Latin America and the Caribbean - Kizuna, the candidate is authorised to travel to Chile on the dates determined by the organiser of the course. Upon his/her return, the organisation is committed to providing all the support necessary for an adequate implementation and transfer of the acquired knowledge and the carrying out of the actions.

(Signature)

\_\_\_\_\_  
**CENTRAL OFFICE NAME**

National Identification N°

(Post)

Institution

Contact phone number

Institutional Stamps

Place, date \_\_\_\_\_