

| ProgrammeTitle                      | Natural Disaster Risk Management  |
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| Training description                | <p>The participants of the training will be introduced to the natural disasters, their causes, as well as their direct and indirect consequences, with particular reference to the natural disasters that most often affect the Republic of Serbia. Special attention will be paid to the contemporary methodology of natural disaster risk assessment and management in terms of measures and activities that should be undertaken with the aim of preventing and mitigating the effects of natural disasters. The training will also be dedicated to emergency procedures in case of a natural disaster event, the normative–legal framework for the engagement of subjects of the protection and rescue system, responsible institutions and the role of the individual - citizen, as well as short-term and long-term post-disaster measures and activities.</p>  |
| Objectives and outcomes of training | <p>The main objectives of the training are aimed at raising public awareness of the real danger of natural disasters and their consequences, understanding the importance of the role of society and the individual in preventing and mitigating the consequences of natural disasters, and getting acquainted with the importance and significance of building a culture of long-term natural disaster risk management through defining normative–legal framework and the establishment of an integrated, functional, and efficient system of responsible institutions and participants.</p> <ul style="list-style-type: none"> <li>• Upon completion of the training, the attendees will have gained knowledge on: <ul style="list-style-type: none"> <li>- strategic activities, procedures, holders of realisation, roles, and responsibilities in the system of natural disaster risk management;</li> <li>- typical challenges related to planning and realisation of activities, deployment of relevant stakeholders, and coordinated cooperation among responsible institutions and participants at all levels (national, regional, and local);</li> <li>- civil protection role of the individual – citizen and its performance.</li> </ul> </li> <li>• Knowledge acquired from the training will enable the attendees to participate successfully in: <ul style="list-style-type: none"> <li>- planning and realisation of adequate studies, measures, and activities for preventing and mitigating the effects of natural disasters;</li> <li>- preparation of appropriate teams and elaboration of operational procedures in emergencies;</li> <li>- the protection and rescue system in terms of coordination in the field, arrangement of appropriate tasks and their successful performance, and cooperation with relevant institutions and participants at all levels.</li> </ul> </li> </ul> |
| Participants                        | <ul style="list-style-type: none"> <li>• Disaster management personnel</li> <li>• Urban development, city planning, and civil engineering professionals</li> <li>• Representatives of higher education institutions</li> <li>• Law enforcement officers</li> <li>• Representatives of the sector for emergency management</li> <li>• Representatives of the local government bodies</li> <li>• Public companies personnel</li> <li>• Facilities management personnel</li> <li>• Utilities (transport, water, energy, telecommunication, waste)</li> </ul>   |

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|                        | <p>management personnel</p> <ul style="list-style-type: none"> <li>• Private sector stakeholders</li> <li>• Health institution officials</li> <li>• Red Cross</li> <li>• Centers for social work</li> <li>• Humanitarian organizations and associations</li> <li>• Associations of citizens</li> </ul>   |             |                |
| Number of participants | 30   |             |                |
| Duration               | 2 days, 8 hours training per day with coffee breaks  |             |                |
|                        |  | No of hours | Lecturer       |
| Programme content      | <p><b>Module 1. Introductory lecture - Natural disasters in Bosnia and Herzegovina</b></p> <ul style="list-style-type: none"> <li>• Natural disasters on the territory of Bosnia and Herzegovina</li> <li>• Frequency and trend of disasters in Bosnia and Herzegovina</li> <li>• Vulnerability maps from natural disasters</li> <li>• The impact of climate change on natural disasters</li> <li>• The normative legal framework for engaging the subject for the protection and rescue system in the fight against natural disasters</li> </ul>  | 1,5         | Emina Hadžić   |
|                        | <p><b>Module 2. Earthquakes as natural disasters</b></p> <ul style="list-style-type: none"> <li>• Primary and secondary effects of earthquakes</li> <li>• Direct and indirect earthquake effects</li> <li>• Seismic activity on the territory of Bosnia and Herzegovina</li> <li>• Seismic hazard, seismic risk, and the earthquake emergency management cycle</li> <li>• Normative-legal framework, responsible institutions and participants, and protection and rescue plan in case of earthquake event in Bosnia and Herzegovina</li> <li>• Pre-earthquake studies, measures, and activities for reduction of earthquake consequences <ul style="list-style-type: none"> <li>- Land-use planning</li> <li>- Integrated assessment of seismic risk</li> <li>- Requirements for the earthquake-resistant design criteria</li> <li>- Studies for planning, design, and construction of critical infrastructure</li> </ul> </li> </ul> | 3,0         | Naida Ademović |

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|  | <ul style="list-style-type: none"> <li>• Post-earthquake measures and activities</li> <li>- Immediate emergency measures and actions</li> <li>- Short-term post-earthquake studies and activities</li> <li>- Long-term post-earthquake measures and activities             <ul style="list-style-type: none"> <li>• Civil protection role of citizens in case of earthquake event</li> </ul> </li> </ul> <p><b>Module 3. Landslides, rockfalls, and erosions as natural disasters</b></p> <ul style="list-style-type: none"> <li>• General on landslides and rockfalls</li> <li>• Landslides and rockfalls on the territory of Bosnia and Herzegovina</li> <li>• The origin and elements of the landslide</li> <li>• Identification of the landslide</li> <li>• Prevention and remediation of landslides</li> <li>• Emergency Protection and Rescue System in Bosnia and Herzegovina</li> <li>• Protection and rescue plan in case of landslides, rockfalls, and erosions</li> <li>• Place and role of the individual - citizen before and after the occurrence of landslides and rockfalls</li> </ul> <p><b>Module 4. Floods as natural disasters</b></p> <ul style="list-style-type: none"> <li>• Defining floods among natural disasters</li> <li>• Causes of forming and floods on the territory of t Bosnia and Herzegovina             <ul style="list-style-type: none"> <li>- Floods areas in Bosnia and Herzegovina</li> </ul> </li> <li>• Flood damages</li> <li>• Legislation in the fight against floods</li> <li>• Measures for flood prevention</li> <li>• Activities and measures in case of floods</li> <li>• Place, role, rights and duties of citizens during floods and after floods</li> </ul> <p><b>Module 5. Droughts as natural disasters</b></p> <ul style="list-style-type: none"> <li>• Drought definition and drought indices</li> <li>• Drought research in Bosnia and Herzegovina</li> <li>• Drought risk management</li> <li>• Monitoring drought impacts</li> <li>• Drought monitoring and early warning information systems</li> </ul> <p><b>Module 6. Institutional framework</b></p> <ul style="list-style-type: none"> <li>• The Constitution of Bosnia and Herzegovina</li> <li>• Law of emergency situations</li> </ul> | <p>3,0</p> <p>3,0</p> <p>3,0</p> | <p>Adis Skejić</p> <p>Hata Milišić/<br/>Emina<br/>Hadžić</p> <p>Hata Milišić/<br/>Emina<br/>Hadžić</p> |
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|                                   | <ul style="list-style-type: none"> <li>• Law on meteorological and hydrological activity</li> <li>• Law on the confirmation of the United Nations Convention to combat desertification in countries experiencing serious drought and/or desertification, particularly in Africa</li> <li>• Law on protection of population from infectious diseases</li> <li>• Water law</li> <li>• National program for managing the risk of natural disasters</li> <li>• National strategy for disaster risk reduction and protection and rescue in emergencies</li> <li>• National Action Plan for mitigating the effects of drought and land degradation</li> <li>• Action Plan for implementation of the national program for managing risks from natural disasters (2016-2020)</li> <li>• Rulebook on the establishment of a methodology for making a preliminary flood risk assessment</li> <li>• Guidance on the methodology for the development of vulnerability assessment and emergency response plans and rescue plans</li> </ul> | 3,0 | Slobodanka Klučanin/<br>Naida Ademović |
| Methodology                       | Video presentation, film, a variety of case studies and disaster scenarios  |     |  |
| Place of training                 | Faculty of Civil Engineering and Architecture University of Niš   |     |  |
| Programme manager/<br>coordinator | Emina Hadžić  |     |  |
| Literature                        | Books, brochures, and material provided by lecturer   |     |  |

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