

1 **ID 459 - An EU Common Training Framework for Landscape Architecture addressing the current needs of society**

2
3 **Abstract**

4
5 The European Union (EU) Directive 2013/55/EC amends Directive 2005/36/EC on the recognition of professional
6 qualifications. The 2013 amendment allows Member States to decide on a common set of minimum knowledge,
7 skills and competences required to pursue a given profession through a Common Training Framework (CTF). Such a
8 framework must combine training requirements formally documented by at least one third of the Member States.
9 Qualifications gained under a CTF may be recognised automatically across the internal borders of the EU, but in
10 any case, an agreed CTF for Landscape Architects would usefully act as a benchmark document for both teaching
11 and professional recognition in countries across Europe.

12 The backbone of the CTF for Landscape Architecture proposed by IFLA Europe and ECLAS is outlined in the body of
13 this paper. The InnoLAND project organised a collaborative process for setting up this CTF as a basis for Landscape
14 Architectural Training. Content is based on educational documents created by IFLA world, IFLA Europe and ECLAS
15 and texts resulting from the EU-TEACH and the EU-LAND21 projects. Content also reflects evolving policies on
16 urban and rural landscapes, higher education, and the needs of society for sustainable, biodiversity-rich landscapes
17 and land uses, landscape democracy, health, and safety. Furthermore, this proposed CTF for Landscape
18 Architecture responds to the United Nations Sustainable Development Goals (UNSDGs) that call for the explicit
19 integration of thematic issues relating to life on earth, biodiversity, water, energy, climate, oceans, urbanisation,
20 transport, science, and technology.

21 The CTF for Landscape Architecture is based on an Equivalence of Standards in education, training, qualifications,
22 knowledge, skills, competences, and the professional conduct associated with practice. In addition, InnoLAND has
23 identified 9 EU Member States that formally regulate the profession of Landscape Architecture and are able to
24 meet Equivalence of Standards as required by the EU Commission. The profession is also regulated in the United
25 Kingdom.

26 The creation of a CTF for Landscape Architects will support and contribute to the EU's goals of increasing
27 professional mobility, safeguarding consumers, and ensuring an equitable distribution of skills and expertise across
28 Member States. The content of the proposed CTF provides a template for national professional bodies and/or
29 competent authorities to engage with the EU Commission.

30
31 **Keywords**

32 common training framework; equivalence of standards; EU directive 2013/55/EC; recognition of professional
33 qualifications; landscape architecture education, European Qualification Framework.

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35

36 ACRONYMS

37

38

ESD	Education for Sustainable Development	ICOMOS	International Council on Monuments and Sites
SDG	Sustainable Development Goals	ELC	European Landscape Convention
UN	United Nations	CPD	Continuous Professional Development
LAR	Landscape Architecture	ILO	International Labour Organisation
LA	Landscape Architect	ISCO	International Standard Classification of Occupations
LAs	Landscape Architects	IFLA	International Federation for Landscape Architecture
EU	European Union	IFLA Europe	The European Region of IFLA
UNESCO	United Nations Educational, Scientific and Cultural Organization	ECLAS	European Council of Landscape Architecture Schools
		CAP	Common Agricultural Policy

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80 1. Setting the scene

81

82 1.1 The existing foundations for the Common Training Framework

83 IFLA Europe and ECLAS are developing a Common Training Framework (CTF) for landscape architecture. The aim is
84 to have a common set of standards for professional qualifications that support the quality of the profession and
85 education of landscape architects (LAs). The CTF is developed in an open process with school contact persons of
86 ECLAS and IFLA Europe delegates as one of the activities of the InnoLAND project. It will include an updated
87 version of the Warsaw declaration by IFLA Europe and ECLAS.

88 The European Union (EU) Directive 2013/55/EC amends Directive 2005/36/EC on the recognition of professional
89 qualifications (PQD). The 2013 amendment allows Member States to decide on a common set of minimum
90 knowledge, skills and competences required to pursue a given profession through a CTF. According to the PDQ
91 there are seven professions with automatic recognition: doctors, nurses responsible for general care, dental
92 practitioners, veterinary surgeons, midwives, pharmacists, and architects, with the fundamental principle of
93 automatic recognition of the evidence of formal qualifications on the basis of coordinated minimum conditions for
94 training. Qualifications gained under a CTF may be recognised automatically across the internal borders of the EU,
95 but in any case, an agreed CTF for LAs would usefully act as a benchmark document for both teaching and
96 professional recognition in countries across Europe.
97

98 Contemporary landscape architecture (LAR) can range from carrying out large scale landscape planning or design
99 projects, such as developing landscape proposals for the future of whole regions or integrating infrastructure
100 projects into the landscape and ameliorating their impacts on the environment, through the formulation of
101 strategies for the provision of green space structures and urban nature conservation, to the detailed design of new
102 housing or commercial areas, individual parks, urban public spaces and gardens. Equally LAs may be involved in the
103 development of concepts for the long-term management of historic gardens and landscapes, recreation areas in
104 the urban fringe or of national parks and protected landscapes (Sarlov Herlin, 2009).

105 The estimated number of LAs across the EU that are members of national associations and/or chambers adds up to
106 14,000. This includes researchers, practitioners, and civil servants, while many of these combine academic work
107 (teaching and research) with professional practice. Their contribution continues to develop through research
108 (including research by design and participatory action research) and addressing the current needs of society for
109 climate resilience, flood prevention, enhancing biodiversity, food security and inclusiveness of all members of the
110 society. The competences of landscape are growing by technical advances, like applying nature-based solutions
111 and technical solutions for green infrastructure, and the increasing knowledge and skills of the practitioners.

112 The profession of landscape architecture falls in the “general system” of the Professional Qualifications Directive
113 (PQD). A CTF must combine training requirements formally documented by at least one third of the Member
114 States. Qualifications gained under a CTF may be recognised automatically across the internal borders of the EU,
115 which provides opportunities for the mutual recognition of qualifications for the estimated 600 professions in the
116 “general system”. This helps catalyse a more rapid and equitable distribution of human resource and services
117 across the Union, and supports individuals seeking unhindered professional migration across EU borders.
118 Professionals who have gained their qualifications under a CTF will be able to have these recognised automatically
119 without further ‘compensation measures’ being imposed.

120 An agreed CTF for LAs would usefully act as a benchmark document for both teaching and professional recognition
121 in countries across the EU and beyond.

122 Proposing the recognition of LAs is in line with the mission of the International Federation for Landscape
123 Architecture Europe (IFLA Europe) and the European Council of Landscape Architecture Schools (ECLAS) and
124 contribution in ensuring equitable, high quality, safe services across the EU’s single market. ECLAS, that also carried
125 out the Tuning Project for landscape architecture (ECLAS, 2010), and IFLA Europe, drew up joint advice for the EU
126 Member States based on education, training, qualifications, continuous professional development, and

127 professional conduct that it considered appropriate with the professional qualifications for landscape architecture.
 128 The preceding process is shown in Figure 1.
 129

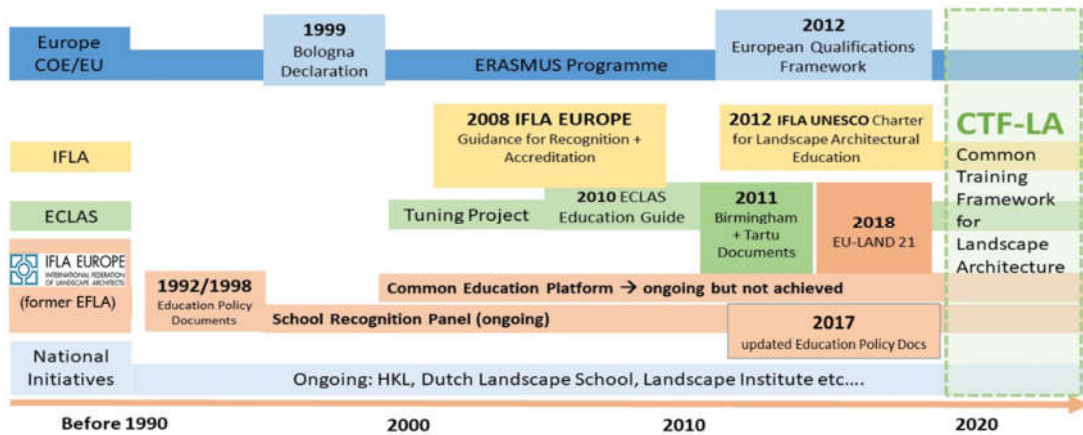


Figure 1. The European pathway to education guidance in landscape architecture (adapted from E. Fetzer). In 2006 the European Foundation for Landscape Architecture (EFLA) joined with IFLA and was renamed IFLA EUROPE.

130
 131 These foundation documents together with the expected knowledge, skills, and competencies for practicing as a
 132 LA form the backbone of a proposed CTF which is outlined here.
 133 In setting the scene for the proposed framework first an overview is provided of LAs unique contributions and their
 134 demographic profile in relation to further stipulations laid down by the PQD for example on regulation status and
 135 adoption of professional titles. The proposed CTF aims to be approved by the IFLA and ECLAS and then will offer
 136 the EU Member States a template for submission to the EU Commission. The context of the CTF is presented in
 137 Figure 2.

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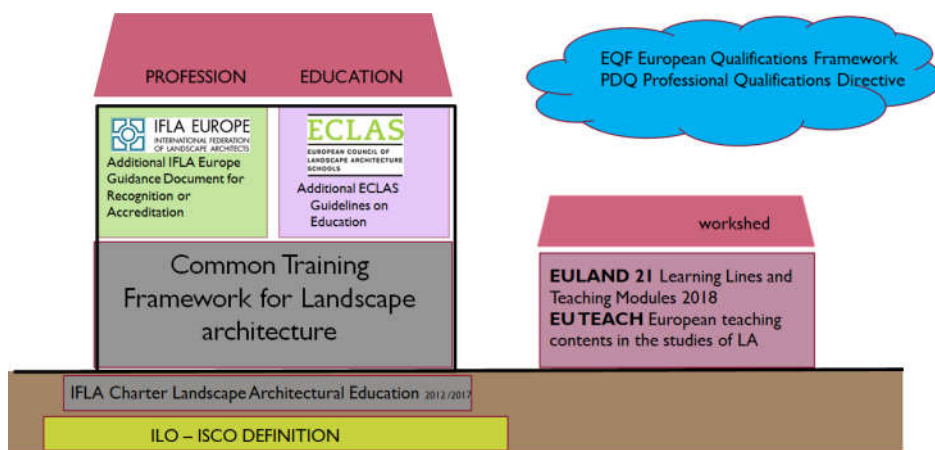


Figure 2. The context of the Common Training Framework for Landscape Architecture

139

140 Overarching regulations are the PQD and the European Qualification Framework (EQF). The foundation for the CTF
 141 consists of the ILO-ISCO definition that an approved by IFLA world and the IFLA Charter Landscape Architectural
 142 Education. With the CTF as a common document for the profession and education the ECLAS guidelines for
 143 landscape architecture education are updated. These give institutes for higher education further guidance on the
 144 content and structure of LA programmes. For professional recognition IFLA Europe provides guidelines on the
 145 process of recognition and an elaboration of the standards that are set in the CTF. Additional information on
 146 competences, learning lines, teaching modes, assessment methods, exemplary modules, etcetera can be found in
 147 the publications of EU Teach and EULAND 21.

148

149 **1.2 New challenges and developments and actual needs of society**

150 Landscape architecture as a field of professional activity and an academic discipline, is concerned with the shaping
 151 of landscapes at various scales. Core competences centre on the process of intervention in landscapes to create
 152 new or revitalised places, by means of landscape planning, design, and management, as well as by project
 153 implementation. It aims are to create, enhance, maintain, and protect places so as to be functional, aesthetically
 154 pleasing, meaningful and sustainable and appropriate to diverse human needs and goals. Landscape architects
 155 must have a holistic and systemic knowledge and understanding of landscape in time and space, and the pressures
 156 and driving forces to which landscapes are subjected; they involve not only specialist knowledge from a wide range
 157 of disciplines, but also the interests of the public.

158 **European and EU policies**

159 The European policies for which LAs have a role in the implementation cover a wide range of themes. A holistic,
 160 systemic, and transdisciplinary approach is essential. In order to address complex challenges there is a trend for a
 161 harmonisation of policies and objectives (such as the integration of environmental and climate legislation between
 162 the Common Agricultural Policy (CAP) and the integration by the Green Deal and local policies). Figure 3 shows the
 163 impact of the main European policies related to landscape for landscape architecture competences.

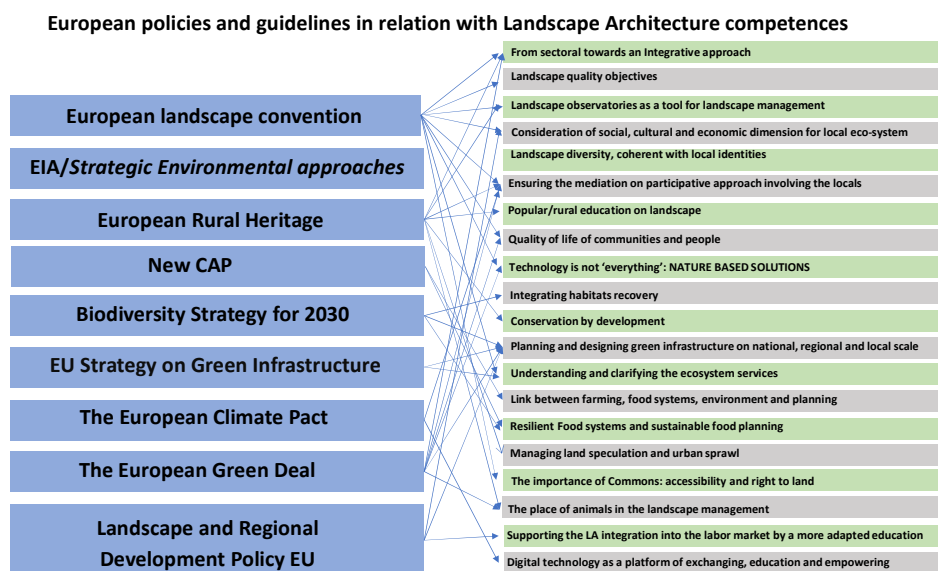


Figure 3. Impact of European and EU policies on competences of landscape architects (Triboi, 2021)

164

165 LAs work together with other disciplines on the implementation of these policies by addressing the corresponding
 166 challenges in a holistic way, linking the ecological, social, economic, and aesthetical aspects. For instance by
 167 fostering global health, strengthening ecosystem services, enhancing climate resilience, local and circular economy
 168 by inclusive and participatory approaches.

169 **Sustainability goals (Fetzer, 2021, in preparation)**

170 UNESCO has been promoting Education for Sustainable Development (ESD) since 1992. The first step for
171 promoting ESD was the UN Decade of Education for Sustainable Development (2005-2014), followed by the Global
172 Action Programme (GAP) on ESD (2015-2019). The GAP is currently in process of implementation at the national
173 levels.

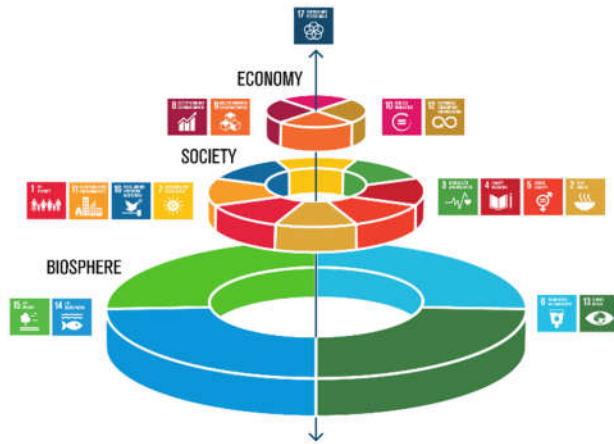


Figure 4. Overview of the Sustainable Development Goals, related to landscape layers. (Source: Stockholm Resilience Centre)

174

175 Each UN member state is following-up similar parallel processes in this field. In recent years, various educational
176 scientists (de Haan, 2010; Wiek, 2011,2015; Rieckmann, 2012) have dealt with a definition of skills and
177 competencies that could serve as a target framework for training in this context.

178 Arnim Wiek (2011, 2015) defined five key competences: Systems thinking, Futures thinking (or anticipatory)
179 competence, Values thinking (or normative) competence, Strategic thinking (or action-oriented) competence, and
180 Collaboration (or interpersonal) competence. The UNESCO report on Sustainability Competences (2017) adds three
181 more to these: Critical thinking, Self-awareness and Integral problem-solving. Even if these key competences seem
182 rather generic, they are very compatible with the identity of landscape architecture as a profession focussing on
183 changing existing landscapes towards a better, more sustainable future.

184 **2. The collaborative process of developing a CTF**

185

186 **2.1 Process and stakeholders**

187 In 2020 and the first months of 2021 IFLA Europe carried out a survey on professional recognition and
188 accreditation among the National Associations in all European countries. The survey aimed to identify: (1) the up-
189 to-date problems for each country, regarding the state and procedures of LA professional recognition and
190 regulation, (2) any good practices or procedures regarding the process of achieving the professional recognition, or
191 any good examples which help the professional accreditation and development, (3) the future trends of the
192 profession, and (4) the obstacles or opportunities regarding the professional mobility.

193

194 From January until June 2021 a collaborative process was conducted within the framework of the InnoLAND
195 project. Some 60 LAs from academia and professional practice took part, with representatives of 24 national
196 landscape architecture organisations in the EU and of landscape architecture programmes across Europe. The
197 participants are located in 24 EU-countries, 6 other European countries, and some colleagues from outside Europe.
198

199 2.2 Outcomes

200 The collaborative process resulted in a strengthened common understanding of the roles and competences of LAs.
201 The participants developed a roadmap for updating the guidelines for landscape architecture education and the
202 principles of recognition by IFLA Europe. It resulted in a draft CTF for landscape architecture (section 4 of this
203 paper) that will be presented to the general assemblies of the ECLAS and IFLA Europe.

204 3. The contribution of landscape architects to sustainable landscapes and healthy
205 environments
206

207 3.1 Roles and responsibilities

208 The task and roles of LAs are developing and, in this context, the Council of IFLA World voted on a renewed
209 definition and proposed it to the ILO.
210

211 *Landscape Architects plan, design and manage natural, rural, and built environments, applying aesthetic and scientific principles*
212 *to address the sustainability, quality and health of landscapes, collective memory, heritage and culture, and territorial justice. By*
213 *leading and coordinating other disciplines, landscape architects deal with the interactions between natural and cultural*
214 *ecosystems, such as adaptation and mitigation related to climate change and the stability of ecosystems, socio-economic*
215 *improvements, and community health and welfare to create places that anticipate social and economic well-being. (IFLA World*
216 *Council, 2020)*
217

218 Whilst the scope of practice at specialist level varies across the EU Member States the overlap is considerable such
219 that common roles and responsibilities can be drawn out as follows:

- 220 1. Developing new/ improved theories and methods, providing advice on landscape policies.
- 221 2. Provision of professional and scientific leadership to direct and determine the scope and organisation of
222 planning and design that are appropriate for local landscapes and its inhabitants and stakeholders.
- 223 3. Working from an extensive, up to date knowledge to ensure best practice.
- 224 4. Ability to work in a professional planning and designing environment to guide landscape strategies, planning,
225 design, management, and project implementation.
- 226 5. Leading and supporting research and development: innovating and implementing new technologies; initiating,
227 conducting, and evaluating research; delivering quality assurance programmes, undertaking continuous audit
228 and evaluation, understanding of ethical, legal and governance considerations.
- 229 6. Participation in and/or leading teaching, education, and training programmes in landscape architecture.
- 230 7. Providing the landscape leadership that focuses on well-being, healthy environments, landscape aesthetics
231 and contributing to the development of sustainable landscapes that foster biodiversity, climate resilience and
232 that deliver ecosystem services and contribute to the well-being of people.
- 233 8. Evaluating and inspecting areas and sites, consulting clients, management, and other stakeholders to
234 determine type, style, size of proposed constructions, landscape interventions, parks, public spaces, green
235 infrastructure, roads, and other urban/rural outdoor spaces.
- 236 9. Compiling and analysing data on regional, local landscapes and project sites with community data
237 (geographical, ecological features, landforms, soils, vegetation, hydrology, visual characteristics, human-made
238 structures, stakeholder mapping) for land use and development recommendations, feasibility studies and
239 environmental impact analysis.
- 240 10. Drawing up reports, strategic plans, site plans, working drawings, specifications, and cost estimates for
241 landscape development, showing location and details of proposals, including ground modelling, structures,
242 vegetation, water system, and access.
- 243 11. Writing specifications and contract documents for use by builders and civil engineering contractors and calling
244 tenders.
- 245 12. Making necessary contracts to ensure feasibility of projects regarding style, cost, timing, and compliance with
246 regulations.
- 247 13. Identifying and finding best solutions for problems regarding function and quality of outdoor environments
248 and making necessary designs, drawings, and plans.

249 3.2 The context of their contributions and the actual needs of society

250 Society at large has a great concern for quality of life, safety, and functionality of rural and urban areas,
251 and for biological and landscape diversity. European policies form a basis for a common strategy to
252 improve conditions for people and their environment. These policies are implemented by national
253 and regional laws and programmes. The first international treaty to be exclusively devoted to all aspects
254 of European landscape, the European Landscape Convention (ELC) was adopted in 2000 and has two main
255 objectives: individual and social well-being, and the sustainable development based on a balanced and
256 harmonious relationship between social needs, economic activity, and the environment. Article 3 aims to
257 promote landscape protection, management, and planning, and to organise European co-operation
258 on landscape issues. Important policies refer to cultural heritage, urban and rural development,
259 climate change, biodiversity, soil protection, water management and flood risk prevention. All these
260 policies relate to sustainable development. This variety of subjects calls for integrated and, at the same
261 time, critical approaches to teaching, learning, and research. The key policies and programmes that
262 have a direct link to territorial development and landscape architecture are shown in Figure 3.

263 To address the current needs of society the following tasks are essential:

- 264 a) Integral planning and designing blue-green infrastructure that provides ecosystem services for
265 urban, peri-urban, and rural landscapes.
- 266 b) Integral planning and designing of urban open space that provides safe, healthy, inclusive
267 environments for people.
- 268 c) Integral planning and designing of landscapes for reducing flood risks, improving climate
269 resilience and biodiversity.
- 270 d) Drawing up plans, projects and designs for the conservation and sustainable development of
271 heritage sites and landscapes with heritage value, such as cultural landscapes, UNESCO/ICOMOS
272 protected areas and sites and modern heritage.
- 273 e) Making plans for productive landscapes that provide ecosystem services, fulfil the aims of the
274 new Common Agriculture Policy and foster sustainable development of food production and
275 energy.
- 276 f) Empowerment of communities by co-creation and democratic design of environments in order
277 to provide in inclusive public spaces and other landscapes.

278 Knowledge, skills, and competencies arm the LAs to provide solutions to these ever-changing
279 demands. In part these demands are predicated by individual member state priorities but,
280 increasingly, common themes emerge in the provision of sustainable landscapes for communities.

281 4. The demographics of the profession and higher education

282

283 4.1 Current status of regulation and professional recognition in EU-countries

284

285 Table 1 presents an overview of the EU countries where the profession is regulated, with the national names of the
 286 profession, the number higher education institutes (HEIs) that deliver landscape architecture programmes, the
 287 names of the degrees and whether the programmes are recognised by IFLA Europe.
 288

289

[NOTE: TABLE 1 Still has to be completed, question for representatives of each country to complete, correct it]

290

Table 1. Overview of aspects of landscape architecture profession and education for EU member states ¹⁾							
	Country	Is the profession regulated? ²⁾	National name of the profession	Number of LA HEIs & main types of faculties	Number registered LA ³⁾	Names of degrees	Program(s) recognised by IFLA Europe ⁴⁾
1	Austria	-	Landschaftsarchitekt	2, Life Sciences and Technical University			-
2	Belgium	-	Landschap- en tuinarchitectuur /	3, Arts,		Bachelor Landscape Architecture Bachelor in Garden and Landscape architecture Master in Landscape architecture	Yes, both bachelor and master
3	Bulgaria	-		1,		Master in Landscape Architecture	Yes
4	Croatia	-		1, Agriculture			-
5	Cyprus	-					-
6	Czech Republic	Yes, general system	Krajinarsky architekt,	2, Life Sciences		Bachelor in Garden and Landscape Architecture (plus elective studies) Bachelor and Master Landscape Architecture -	Yes
7	Denmark	-				MA Urban Design/Landscapes	yes
8	Estonia	-	Maastikuarhitekt	1, Life Sciences			-
9	Finland	-		1, Arts		Bachelor in Landscape Architecture Master in Landscape Architecture	yes
10	France	Yes, general system	Paysagiste concepteur	6, Architecture, Nature, Agriculture, Landscape Architecture		MA Landscape Architecture Paysagiste ESAJ (Landscape Architect ESAJ), Bachelor Diplôme d'Etat de Paysagiste (DEP)+ Master Degree Diplôme d'Etat de Paysagiste MA Landscape Architecture	yes
11	Germany	Yes, general system	Landschafts- und Gartenarchitekt				
12	Greece	-		2, Agriculture and Architecture		Master in Landscape Architecture	yes
13	Hungary	Yes, general system	Kertépítészeti műtárgy tervezési szakterület / Építészeti-műszaki tervezési tevékenység & Táj- és kertépítészeti tervezési szakterület / Építészeti-műszaki tervezési tevékenység	1, Agriculture and Life Sciences		Landscape management and garden construction Okleveles tájépítész m.nök/ Certified Landscape (MSc) Architect Tájépítész és kertm. Úvés/Garden art and Landscape design Master of Arts in Landscape Architecture (MLA)	yes
14	Ireland	-					
15	Italy	Yes, general system	Paesaggista				

Table 1. Overview of aspects of landscape architecture profession and education for EU member states ¹⁾							
	Country	Is the profession regulated? ²⁾	National name of the profession	Number of LA HEIs & main types of faculties	Number registered LA ³⁾	Names of degrees	Program(s) recognised by IFLA Europe ⁴⁾
16	Latvia	-					
17	Lithuania	-					
18	Luxembourg	Yes, architect specialist	Architecte-paysagiste et ingénieur-paysagiste				
19	Malta	-					
20	Netherlands	Yes, general system	Tuin- en landschapsarchitect				
21	Poland	-		3, Technology and Agriculture		Full Programme - (Bachelor and Master Landscape Architecture Engineer Landscape Architecture	yes
22	Portugal	-					-
23	Romania	-		2, Architecture and Agriculture			-
24	Slovakia	Yes, general system	Krajinný architekt	2, Architecture and		Bachelor Landscape Architecture	-
25	Slovenia	Yes, general system	Pooblaščen krajinski arhitekt	1, Biotechnical		Bachelor in Landscape Architecture MSc of landscape architecture	Yes, bachelor
26	Spain	-		1, Architecture, Agriculture and Politechnic		MA Landscape Architecture (MAP) BCN Master in Landscape Architecture Extended (MLAE) Master Universitari en Paisatgisme (MUP) Master Barcelona in Lnadscape Architecture (MBLandArch) Master Universitario en Jardinería y Paisaje	Yes
27	Sweden	-	Landskaparkitekt	1, Life Sciences		MSc Landscape Architecture	- -
<p>1) The recognised programmes in Iceland, Norway are not mentioned in this table 2) Source web site EU-Union: http://ec.europa.eu/growth/tools-databases/regprof/index.cfm?action=profession&id_profession=6480 3) To be provided by the National Associations (if not available before Jun2 15, 2021 this column will be taken out. 4) List of recognised schools as presented on the IFLA Europe website, consulted on May 15, 2021</p>							

291

292 The profession is regulated in 9 member states of the EU. The programmes of 11 member states have gained
293 professional recognition by IFLA Europe. The total number of LAs that are members of IFLA Europe, either as a
294 professional member of a National Association or member of a national Chamber in the EU adds up to 14,000.

295 4.2 Problems that landscape architects encounter in their work across and in EU countries.
296

297 IFLA Europe carried out a survey on the “Professional recognition in IFLA Europe countries: Problems and
298 opportunities at national level”. The data were collected from July 2020 till March 2021 and 25 national
299 organisations who are member of IFLA Europe sent their answers.

300 Regarding the obstacles and problems for landscape architects to work in another EU-member country a wide
301 range of difficulties were mentioned. Those who can be addressed by the establishment of a CTF are: in some
302 countries the qualifications of other countries were not recognised (Italy and Spain), in several countries a LA had
303 to work together with a local landscape office in order to fulfil the requirements, in some countries LAs
304 encountered administrative problems or difficulties in proving the acquired qualification (for instance to be
305 registered at the national chamber).

306 5. The shape of the common training framework
307

308 5.1 The core of the Common Training Framework for Landscape Architecture

309 A. Landscape Architects plan, design and manage natural and built environments, applying aesthetic and scientific
310 principles to address ecological sustainability, quality and health of landscapes, collective memory, heritage and
311 culture, and territorial justice. By leading and coordinating other disciplines, landscape architects deal with the
312 interactions between natural and cultural ecosystems, such as adaptation and mitigation related to climate change
313 and the stability of ecosystems, socio-economic improvements, and community health and welfare to create
314 places that anticipate social and economic well-being (IFLA World,2018)
315

316 B. To meet the academic requirement for national or state recognition for the profession of landscape architect
317 the level of graduation should be at **level 7 of the European Qualification Framework**, a master diploma or
318 equivalent, in **combination with of followed by a professional practice period** with an **approved exit**
319 **qualification/certificate** by the national organisation competent for this. The diploma for landscape architecture
320 can be a Master, Master of Arts, or a Master of Science.
321

322 C. Requires landscape architects to be included in a **professional register** (if available) in their home country and to
323 maintain their competence and knowledge base through participation in **Continuous Professional Development**
324 activities and comply with the IFLA EUROPE **code of professional standards and ethics**.
325

326 D. To be recognised as a component of professional recognition, landscape architecture programmes delivered by
327 university level institutions must teach **competences in the core area of the discipline**, which is **landscape**
328 **planning, design, and management**. This is carried out through the conception, development, communication and
329 implementation of landscape projects, programmes and strategies, involving intervention in the landscape at
330 different scales of time and space.
331

332 E. To ensure that these **projects, programmes and strategies** grow out of and fit into their social, environmental,
333 political and cultural context, with the participation of all relevant actors and are both feasible and sustainable,
334 landscape architecture programmes are expected to follow the ECLAS/IFLA Europe Guidance that identifies the
335 competences required to plan, design, and manage sustainable landscapes of various scales. The graduates need
336 to acquire the following knowledge, skills and understanding:

- 337 1. The structure of the physical landscape as well as the natural systems and processes operating to shape it;
- 338 2. The historical development and the land use and management systems that have led to today’s typical
339 patterns of vernacular cultural landscapes;
- 340 3. The development, morphology, and function of urban settlements, including their characteristic built
341 form and building types and in particular their related open space structures;
- 342 4. The ways in which individuals, social groups, and society as a whole, both past and present, have
343 perceived, and continue to perceive, value, and interact with their landscapes;

- 344 5. The legal, political, institutional and policy frameworks which influence the conservation and
 345 development of the landscape, and how they come into being, as well as the contemporary discourse
 346 relating to environmental planning and design;
- 347 6. Approaches, methods, and techniques (including digital competences) for representing and analysing the
 348 landscape with its systems and processes, and for understanding the needs and expectations of its actual
 349 and potential users and other relevant actors;
- 350 7. The canon of historic and contemporary parks, gardens, planned and designed landscapes, landscape
 351 designs and plans together with the ideas and individuals behind them;
- 352 8. Practical planning, management and design principles and skills for landscapes, as well as the underlying
 353 theories and concepts on which they are based;
- 354 9. The materials, both living and inert, and techniques relevant for landscape projects, together with related
 355 design and construction standards involved in project implementation and aftercare;
- 356 10. The professional practice of landscape architecture, including the development and role of the
 357 professions, professional ethics, the stages of the planning and design process and the practices of project
 358 management and interdisciplinary collaboration;
- 359 11. Strategies, methodology, and methods on design, for design and through design;
- 360 12. Transformative competences of landscape architects: systems thinking, anticipatory competence,
 361 normative competence, strategic competence, collaboration competence, critical thinking, self-
 362 awareness, and integral problem-solving in order to contribute to sustainable landscapes.
 363

364 5.2 The expected base of knowledge, skills, and competences for landscape architecture

365 The key elements of the standards include core competences, subject-specific competences, and generic
 366 competences. The generic ones comprise transformative, instrumental, interpersonal, and systemic competences.
 367

368 Core competences

369 The core competences of LAs are defined in the proposed International Labour Organisation definition that is
 370 approved by the IFLA World Council.

371 Core competences of landscape architecture centre on the process of intervention in landscapes to create new or
 372 revitalised places, by means of landscape planning, design, management, and project implementation.
 373

374 Subject specific competences

375 The subject specific competences are:

- 376 A1 Carrying out research for, on and through design and participatory action research
- 377 G1 Analysing landscape systems, processes, patterns with their characteristics, meaning and challenges
- 378 B1 Landscape planning: developing plans, strategies, scenarios, and visions for sustainable urban and rural
 379 landscapes
- 380 B2 Landscape design: Designing aesthetic, functional and meaningful landscapes
- 381 B3 Landscape Management: Developing strategic, tactical, and operational landscape management plans
- 382 C1 Creating and developing policies for sustainable urban open spaces and systems
- 383 C2 Conserving and developing cultural and heritage landscapes
- 384 C3 Conservation and management of parks and gardens
- 385 C4 Planning and design for infrastructure projects taking into account their landscape impacts
- 386 D1 Implementing landscape designs by hard landscaping and planting
- 387 D2 Restoring habitats and vegetation establishment
- 388 E1 Applying of Geodesign, Geo Information Systems and ICT in landscape architecture
- 389 F1 Acting as a professional landscape architect: entrepreneurship and ethics.
- 390 I-1 Organising participation and co-creating inclusive, democratic landscapes.
- 391 I-2 Including the perception, values and interaction of individuals, social groups, and society as a whole with their
 392 landscapes.
- 393 I-3 Creating productive landscapes with sustainable food production and renewable energy.
 394

395 These subject specific competences are elaborated in the ECLAS/IFLA Europe guidance documents.
 396

397 **Generic competences: transformative, instrumental, interpersonal, and systemic**

398 The transformative competences of LAs are: systems thinking, anticipatory competence, normative competence,
 399 strategic competence, collaboration competence, critical thinking, self-awareness, and integral problem-solving.
 400 The content of these competences can be seen in the table below.
 401

Table 2. Transformative competences for landscape architecture: the abilities to:	
Systems thinking competency	recognize and understand relationships; to analyse complex systems; to think of how systems are embedded within different domains and different scales; and to deal with uncertainty.
Anticipatory competency	understand and evaluate multiple futures – possible, probable, and desirable; to create one’s own visions for the future; to apply the precautionary principle; to assess the consequences of actions; and to deal with risks and changes.
Normative competency	understand and reflect on the norms and values that underlie one’s actions; and to negotiate sustainability values, principles, goals, and targets, in a context of conflicts of interests and trade-offs, uncertain knowledge and contradictions.
Strategic competency	collectively develop and implement innovative actions that further sustainability at the local level and further afield.
Collaboration competency	learn from others; to understand and respect the needs, perspectives, and actions of others (empathy); to understand, relate to and be sensitive to others (empathic leadership); to deal with conflicts in a group; and to facilitate collaborative and participatory problem solving.
Critical thinking competency	question norms, practices, and opinions; to reflect on own one’s values, perceptions, and actions; and to take a position in the sustainability discourse.
Self-awareness competency	reflect on one’s own role in the local community and (global) society; to continually evaluate and further motivate one’s actions; and to deal with one’s feelings and desires.
Integrated problem-solving competency	apply different problem-solving frameworks to complex sustainability problems and develop viable, inclusive, and equitable solution options that promote sustainable development, integrating the abovementioned competences.

402
 403 **Instrumental competences**

404 Instrumental competences are capacity for organisation and planning; grounding in basic knowledge of the
 405 profession: Spatial (3D) thinking; Ability to take the dimension of time into account; visual, oral and written
 406 communication; knowledge of a second language; ability to explore, organise and support participatory processes
 407 and co-creation; ability to work with digital data, digital tools such as virtual representations; understand the
 408 possibilities of Artificial Intelligence; knowledge of technology in interaction with nature or led/driven by nature;
 409 ability to apply Nature Based Solutions; and drawing and visual representation skills.
 410

411 **Interpersonal competences**

412 The interpersonal competences are ability to accept criticism and to take it into account; ability to work in an
 413 interdisciplinary team; ability to communicate with experts in other fields; ability to work in an international
 414 context; ability to work with communities and stakeholders; understanding of natural diversity; and understanding
 415 and appreciation of physical, psychological requirements and desires of a diverse multi-/intercultural society.
 416

417 **Systemic competences**

418 The systemic competences are: capacity for applying knowledge in practice; research skills; capacity to adapt in
 419 new situation; capacity to generate new ideas; ability to work autonomously; project design and management;
 420 initiative and entrepreneurial spirit; concern for quality; will to succeed; capacity of argumentation, abstraction,
 421 project management, to set priorities; and ability to act as a critical and committed citizen.
 422

423 5.3 The level of education and requirements for being registered as a landscape architect

424

425 5.3.1 EQF level

426 The level of competence is in accordance with level 7 of the European Qualification Framework. This entails that
427 the qualified LA:

- 428 - Explores and defines the context him-/herself and can support others in this.
- 429 - Defines problems fields and assignments, and advises commissioners or group of stakeholders in defining
430 these.
- 431 - Studies and works as professionals seeking feedback from peers and experts.
- 432 - Has an excellent overview of the professional field and can define their position in it.
- 433 - Innovates methods and approaches of the discipline, including research and entrepreneurial competences.

434

435 To acquire all competences needed to be a LA, a master degree in landscape architecture (MA in landscape
436 architecture, MSc Landscape Architecture, MLA) is thought to be the entrance level for professional recognition as
437 a LA in the EU. Part of the competences may be acquired by doing an internship or traineeship at a landscape
438 office.

439

440 Candidates who have acquired competences outside a formal education system, can be assessed by examination
441 committees which are competent to provide access to national registers and/or chambers for landscape
442 architecture.

443

444 5.3.2 Professional traineeship and continuous professional development

445 After successful graduation of a master an additional professional traineeship under supervision of a qualified LA is
446 required to be recognized as a LA. The organisation and recognition process of this traineeship are defined by the
447 competent national bodies.

448 Registered Las are expected to maintain their competence and knowledge base through participation in CPD and
449 have this registered according to the national regulations.

450

451 5.4 An expected code of ethics and professional conduct

452

453 The Code of Ethics and Professional Conduct of IFLA Europe ensures that professionals conduct themselves in a
454 manner that does not bring into disrepute the discipline and the profession of landscape architecture. They shall
455 seek to establish the highest standards on landscape professions, and seeks to protect, conserve, and enhance the
456 natural and built environment for the benefit of the public and sustainable development within the framework of
457 the Sustainability Development Goals. They shall value integrity, impartiality and respect for persons and strive for
458 landscape justice, inclusive landscapes, and landscape democracy. Taking account of their obligations under the
459 law, they shall hold the interest and welfare of clients and users of the landscapes alike.

460

461 The overarching principles for this code are defined in the IFLA World Code of Ethics (IFLA World, 2014) and the
462 General Assembly of IFLA Europe approved the European Code of Ethics and Professional Conduct (further
463 referred to as 'the Code'). The national associations and chambers where LAs are registered defined their national
464 codes.

465 5.4.1 Conduct, values, ethical standards.

466 IFLA EUROPE (2014) places a strong emphasis on the integrity, competence, and professionalism of its members,
467 and therefore encourages the member associations to adopt this 'Code of Ethics and Professional Conduct' and
468 requires all IFLA EUROPE members to conduct themselves in accordance with this Code within their professional
469 and business life.

470
471 The Code (Appendix II) should be considered central to the professional life of any IFLA EUROPE landscape
472 professional not only as a source of ethical guidance, but also as a common-sense indicator to principles of good
473 practice. It lays down standards of professional conduct and practice expected of all landscape professionals of
474 IFLA EUROPE, whatever their category of membership. Members are expected to be guided in their professional
475 conduct and work as much by the spirit of the Code as by its express terms. The purpose of the Code is to promote
476 the highest professional standards, rather than constitute a basis for undertaking disciplinary actions.

477
478 The code contains 32 standards for Professional Attitudes, Professional Competences, and the Landscape and the
479 Environment. The section relating to the Environment contains the following codes: to recognize and protect the
480 cultural and historical context and the ecosystem to which the landscape belongs when generating design,
481 planning and management proposals (Standard 30); to develop, use and specify materials, products and processes
482 which exemplify the principles of sustainable management and landscape regeneration (Standard 31), and to
483 advocate values that support human health, environmental protection, and biodiversity (Standard 32).

484
485 5.4.2 Compliance to the code of conduct

486 The National Associations have adopted the Code and will comply to it. Each country should integrate it in the
487 national codes of ethics and professional conduct by referring the European code and making sure that the
488 national regulation for this do not contradict the European Code. Registered LAs agree to comply to the Code
489 taking into account their own national laws and regulations.

490 5. Discussion

491 5.1 Discussion on the content of the CTF

492
493 There are no specialisations for LA programmes defined in the CTF. Some argue for mentioning landscape planning
494 and landscape design. As long as landscape architecture programmes meet the standards of the CTF, programmes
495 can have different focuses in the content or HEIs can have courses with different specialisations. There might be
496 confusion if two specialisations are mentioned because this would call for a specification of the standards and
497 competences for each specialisation.

498
499 The structure and length of landscape architecture programmes is not included in the CTF. National regulations
500 vary and the CTF should not set standards for this. Learners can also acquire the competences in an individual way,
501 combining working periods, modules with a final assessment. The CTF should be open to that. Further advice on
502 the content of programmes, conversion masters, acknowledgment of earlier acquired competences can be
503 included in the ECLAS guidance.

504
505 The defined level of qualification is EQF level 7 (master level). The IFLA Europe recognition standards now define a
506 training of minimum 4 years. In some countries a diploma course or bachelor level can give admission to the
507 register of the National Association or the Chamber. Since the CTF does not overrule national regulations and LAs
508 need to be on the same level of competence as other disciplines (e.g. architects), a master level is essential and
509 does not compromise the national context.

510
511 The length, structure, and form of assessment of the professional traineeship is not defined in the CTF. A proposal
512 of a minimum period (some mention 2 years), main content and a terms of reference formal assessment by a
513 national competent body might help to raise the standard. At the other hand this might be too challenging for
514 some countries.

515 The requirement for continuous professional development (CPD) is included in the CTF. There is a general
516 agreement that the CTF should not set standards for this, nor define the consequences for not meeting these
517 requirements. The situation in the countries widely differs and the implementation of CPD is still in development.
518 Some state that CPD should only be recommended in the CTF and not required, but that again is not in line with
519 the standards of other regulated professions.

520
521 The Code of Ethics of IFLA Europe is included as a reference, while the core CTF only states that compliance is
522 needed with a further elaboration of the main content. Since the code might be changed in accordance with
523 development of the role and tasks of LAs in the future a more general reference is called for. Others state however
524 that a better awareness of the content of the code is called for, but for this, other activities might be better suited
525 than including it in the CTF.

526

527 5.2 Discussion on the adoption of the CTF by the EU

528

529 In line with three key conditions of the PQD that need to be fulfilled for being subject to a CTF, LAs: (a) can be
530 identified as a regulated profession and/or a profession whose training is regulated in at least one third (33%) of
531 the EU member states, (b) are not already subject to automatic recognition as a sectorial profession nor to another
532 level CTF, and (c) would possibly have their professional mobility enhanced with the adoption of a CTF.

533

534 The PQD has been modified an amended since 2005. Within the trend of de-regulation the EU has set further
535 conditions for regulated professions.

536

537 The proposed CTF builds on EU guidance for a ‘bottom up’ approach in which professional organisations or
538 competent authorities from at least one third of the Member States may submit suggestions for a framework to
539 the Commission. Such an approach is meant to ensure that proposals respond to real needs felt by the profession
540 and benefit from the in-depth knowledge and understanding of the area concerned. At the time of writing 9 of
541 IFLA Europe’s affiliated national societies in the EU highlight their country’s ability to meet the federation’s
542 standards for recognition, the expected level of knowledge, skill and competency, and the code of conduct.

543

544 Amongst these 27 Member States 9 are also able to meet the requirements of the proposed CTF in that the
545 profession and/or training is regulated, and their national qualification frameworks are formally linked
546 (referenced) to the European Qualifications Framework for lifelong learning, a further EU Commission requirement
547 for submission of the framework.

548

549 In progressing a submission the opportunity arises for the EU Commission to adopt a CTF by “delegated act” (a
550 delegation granted in the text of an EU law such as the Professional Qualifications Directive that allows
551 consideration of a suggested framework by delegated authorities within the Commission) followed by an
552 implementing act to list the national professional qualifications and national titles that benefit from automatic
553 recognition under the adopted CTF. However, whilst landscape architecture has established key building blocks for
554 the mutual recognition of its specialist practitioners’ qualifications a current ‘a priori’ challenge across the EU is
555 determining the ‘proportionality’ of the professional regulatory frameworks held within the individual member
556 states which may have been built up and/or modified over many years (EU, 2018). The uneven scrutiny of the
557 regulation of professions across the EU has been deemed to have a negative impact on the provision of services
558 and the mobility of professionals in a single EU market - the need for a mutual evaluation exercise facilitated by
559 the Commission was identified within EC Directive 2013/55/EC to ensure greater transparency and justification.
560 Within the exercise Member States provide a list of their regulated professions, the activities reserved for them
561 and a justification of the need for regulation. The subsequent 2018 Proportionality Directive supplements
562 provisions within the 2013 Directive and now requires Member States to review existing regulations of professions
563 or when proposing new ones.

564 6. Conclusions

565 6.1 Main conclusions

566 Through the engagement of professional organisations of 9 EU Member States have been identified as candidate
567 signatories to a CTF for LAs. Achieving recognition is an ongoing project in part dictated by external timelines and
568 jurisdictions but crucially also by professional organisations and competent authorities who recognise the effect
569 the PQD brings to harmonising the education and training that enhances the development of sustainable
570 landscapes that support well-being, and climate resilience. This enables the free mobility of landscape architecture
571 professionals across countries of the EU. Whilst CTFs do not replace national programmes unless a Member State
572 decides otherwise the updated guidelines by ECLAS and IFLA Europe will provide a solid base for recognition of
573 programmes and qualifications. Pending progress with achieving proportionate professional regulation and further
574 guidance from the EU Commission the onus is on national societies and competent authorities to capitalise on
575 opportunities to submit suggestions for a CTF as and when they arise.

577 In turn the framework supports and contributes to the Directive’s enabling goals for increasing professional
578 mobility, supporting the implementation of sustainability goals and EU-landscape policies. It also can help to
579 ensure a more equitable distribution of skills and expertise across the Member States.

581 6.2 Pathway to an CTF adopted by ECLAS, IFLA Europe and the EU

582 The proposed CTF will be further developed based on the discussion during the ECLAS 2021 conference and the
583 decisions of the ECLAS 2021 General Assembly and the IFLA Europe Assembly in Autumn 2021. On the basis of this
584 ECLAS plans to update its Guidance for Landscape Architecture Education and the IFLA Europe School Recognition
585 panel aims to update the IFLA Europe Recognition documents for Landscape Architecture Schools.

587

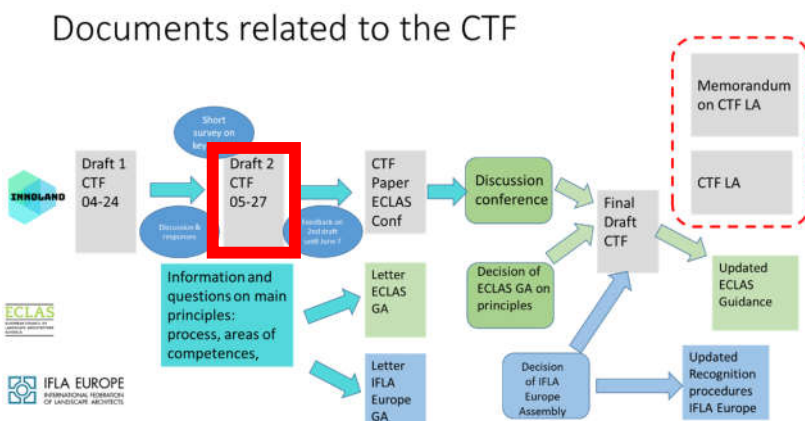


Figure 5. The development of this draft CTF in the context of other documents (in the red rectangle the current draft)

588

589 When a final draft of the CTF has been drawn up, there will follow a wider consultation by representants of
590 neighbouring disciplines and stakeholders in the field of landscape.

591 The plan is to submit a document to the National Regulating Bodies (governments, ministries) that have a role in
592 the EU-recognition of the CTF. To the core CTF will be added: (1) a description of the current arrangements for
593 regulating the profession (in the nine countries that do it), (2) the statistics required (how many professionals), (4)
594 a description of the current arrangements for international mobility of professionals (between different countries),
595 and (5) an evaluation the advantages and disadvantages of the CTF to each country that regulates the profession.

596 As a parallel process IFLA Europe and the partners of the InnoLAND project plan to communicate with DG GROW
597 on the pathway to legally establish the CTF as an EU regulation.

598 Further consultation of ECLAS and IFLA Europe will take place in the Spring of 2022 and the aim is to have approval
599 of the CTF by the Assemblies of ECLAS and IFLA Europe in the autumn of 2022.

601

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698 Definitions

699

700 **'regulated profession'**: a professional activity or group of professional activities, access to which, the
701 pursuit of which, or one of the modes of pursuit of which is subject, directly or indirectly, by virtue of
702 legislative, regulatory or administrative provisions to the possession of specific professional
703 qualifications; in particular, the use of a professional title limited by legislative, regulatory or
704 administrative provisions to holders of a given professional qualification shall constitute a mode of
705 pursuit. Where the first sentence of this definition does not apply, a profession shall be treated as a
706 regulated profession;

707

708 **'professional qualifications'**: qualifications attested by evidence of formal qualifications, an attestation
709 of competence referred to in the PDQ, Article 11, point (a) (i) and/or professional experience;

710

711 **'evidence of formal qualifications'**: diplomas, certificates and other evidence issued by an authority in a
712 Member State designated pursuant to legislative, regulatory or administrative provisions of that
713 Member State and certifying successful completion of professional training obtained mainly in the
714 Community. Where the first sentence of this definition does not apply, evidence of formal qualifications
715 shall be treated as evidence of formal qualifications;

716

717 **'competent authority'**: any authority or body empowered by a Member State specifically to issue or
718 receive training diplomas and other documents or information and to receive the applications, and take
719 the decisions, referred to in the PDQ;

720

721 **'regulated education and training'**: any training which is specifically geared to the pursuit of a given
722 profession and which comprises a course or courses complemented, where appropriate,
723 by professional training, or probationary or professional practice. The structure and level of the
724 professional training, probationary or professional practice shall be determined by the laws, regulations
725 or administrative provisions of the Member State concerned or monitored or approved by the authority
726 designated for that purpose;

727

728 **'professional experience'**: the actual and lawful full-time or equivalent part-time pursuit of the
729 profession concerned in a Member State.

730

731 **'professional traineeship'**: without prejudice to Article 46(4) of the PDQ, a period of professional
732 practice carried out under supervision provided it constitutes a condition for access to a regulated
733 profession, and which can take place either during or after completion of an education leading to a
734 diploma;

735

736 **'lifelong learning'**: all general education, vocational education and training, non-formal education and
737 informal learning undertaken throughout life, resulting in an improvement in knowledge, skills and
738 competences, which may include professional ethics;

739

740 **'European Credit Transfer and Accumulation System or ECTS credits'**: the credit system for higher
741 education used in the European Higher Education Area