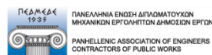




Micro-credentials in Construction

ESCO's green labels for skills in the construction sector



Project Information

Project number	101132905
Project name	Micro credentials in Construction Sector
Project acronym	Green Circle
Call	ERASMUS-EDU-2023-PI-FORWARD
Topic	ERASMUS-EDU-2023-PI-FORWARD-LOT2
Type of action	ERASMUS-LS
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Project end date	30 Nov 2026
Project duration:	36 months
Project Website:	https://green-circle.eu/

Partners



1. **TECMINHO** – ASSOCIAÇÃO UNIVERSIDADE EMPRESA PARA O DESENVOLVIMENTO (**PORTUGAL**)
2. **ACP** - SYNERGASIA ENERGNON POLITON - ACTIVE CITIZENS PARTNERSHIP (**GREECE**)
3. **PONTYDYSGU SL** (**SPAIN**)
4. **CICCOPN** - CENTRO DE FORMAÇÃO PROFISSIONAL DA INDÚSTRIA DA CONSTRUÇÃO CIVIL E OBRAS PÚBLICAS DO NORTE (**PORTUGAL**)
5. **CASAIS** - ENGENHARIA E CONSTRUÇÃO SA (**PORTUGAL**)
6. **UNIR** - UNIVERSIDAD INTERNACIONAL DE LA RIOJA (**SPAIN**)
7. **ARANSA** – ARANSA CONSTRUCCION Y OBRA CIVIL SA (**SPAIN**)
8. **VBB NORD** - VEREIN ZUR BERUFSFÖRDERUNG DER BAUWIRTSCHAFT NORD EV (**GERMANY**)
9. **PEDMEDE** - PANELLINIA ENOSI DIPLOMATOUCHON MICHANIKON ERGOLIPTON DIMOSION ERGNON - PANHELLENIC ASSOCIATION OF ENGINEERS CONTRACTORS OF PUBLIC WORKS (**GREECE**)
10. **BNB** - BAUINDUSTRIEVERBAND NIEDERSACHSEN-BREMEN E.V. (**GERMANY**)
11. **DUTH** - DEMOCRITUS UNIVERSITY OF THRACE (**GREECE**)

Table 1. List of ESCO's construction skills filtered by green labels

Level	skillType	preferredLabel	conceptUri
cross-sector	knowledge	alternative energy	http://data.europa.eu/esco/skill/8f585def-6ade-41b3-b897-3d71fba4151d
		asbestos removal regulations	http://data.europa.eu/esco/skill/d13f1685-9848-4c9e-a40a-686ddb407858
		domestic heating systems	http://data.europa.eu/esco/skill/95013213-ee67-493b-86d0-e383e0f72482
		electricity consumption	http://data.europa.eu/esco/skill/21c27eba-bd1f-42f5-a1d5-c250227030f7
		energy conservation	http://data.europa.eu/esco/skill/ddce2912-bc0f-4a47-aa2b-c1de48bc4b44
		energy performance of buildings	http://data.europa.eu/esco/skill/4e09e2d2-e317-47d2-bf5e-1d6c66be3efc
		energy storage systems	http://data.europa.eu/esco/skill/6c6daac0-80f5-431f-a33f-c5b722094657
		environmental engineering	http://data.europa.eu/esco/skill/b1b118c4-3291-484e-b64d-6d51fd5da8b3
		environmental legislation	http://data.europa.eu/esco/skill/6f5850ea-5785-4e2c-b062-743066fd5bdb
		environmental management standards	http://data.europa.eu/esco/skill/95bff246-c3ce-4181-a11b-e4363453c2f8
		environmental policy	http://data.europa.eu/esco/skill/081d7679-5070-4777-bece-a28c49f15636
		green space strategies	http://data.europa.eu/esco/skill/5368a46a-54b5-4874-a06f-964d557c1cfb
		hazardous waste storage	http://data.europa.eu/esco/skill/ed8dbdd1-5b40-4eaf-adaf-3b1f6d16a37b
		hazardous waste treatment	http://data.europa.eu/esco/skill/519e5731-4d6c-4f98-938e-0976a202c6ba
		hazardous waste types	http://data.europa.eu/esco/skill/5944cee9-763e-4b08-99e4-f514bdde14a6
		health and safety regulations	http://data.europa.eu/esco/skill/f2f463e5-2382-49cb-8199-e7e043d868df

		hydroelectricity	http://data.europa.eu/esco/skill/50e6eba0-4440-4ba5-bb58-3ee78a96e29b
		industrial heating systems	http://data.europa.eu/esco/skill/c49eb4a4-7b5f-44e6-b346-7153879ac86b
		lean manufacturing	http://data.europa.eu/esco/skill/82fea746-853f-4f1b-8ab7-55de8619cccd
		marine technology	http://data.europa.eu/esco/skill/ec4de8aa-9ba4-412b-832d-93361210eae3
		pollution prevention	http://data.europa.eu/esco/skill/75f312e1-622b-4751-8d93-815b32feaf8d
		renewable energy	http://data.europa.eu/esco/skill/f8413360-6114-40de-a276-c59b764b9913
		resource-efficient technologies	http://data.europa.eu/esco/skill/d1f73ae9-d348-4aac-b5d5-9b6d508401d3
		solar energy	http://data.europa.eu/esco/skill/05e5e14f-ffa6-4106-b311-c6335ccc2bd2
		solar products	http://data.europa.eu/esco/skill/c4867766-50f8-489e-98d7-262da5589c0a
		surface engineering	http://data.europa.eu/esco/skill/b589ce7c-588f-4045-be2d-9332c2d2278d
		sustainable development goals	http://data.europa.eu/esco/skill/dda745dd-b8d6-45d8-8c74-e05495ce90f5
		sustainable manufacturing	http://data.europa.eu/esco/skill/28ad7c97-9fb3-4b1d-846a-654e529ab8ac
		sustainable technologies	http://data.europa.eu/esco/skill/103f7814-d262-4df6-a1b6-759bc51f76cb
		types of insulation material	http://data.europa.eu/esco/skill/0d0fe364-462d-48dd-b54b-e972e2bdecb1
		types of photovoltaic panels	http://data.europa.eu/esco/skill/8248a071-5307-4a64-a62d-643a35ec31e2
		types of wind turbines	http://data.europa.eu/esco/skill/6853886b-ebc5-4b91-98af-9a4ecca803bd
		types of wood	http://data.europa.eu/esco/skill/cf2005ee-c788-4283-81d9-b443dfdf2c2e

		urban planning law	http://data.europa.eu/esco/skill/1f632076-fd9b-4b18-a9a2-b59a59181d3e
		waste management	http://data.europa.eu/esco/skill/40f65a56-ccbe-4601-9f32-1cc6cdd24f28
		water policies	http://data.europa.eu/esco/skill/4ee4ed1d-dc38-48e0-a9e6-a6b64f316ea6
		water reuse	http://data.europa.eu/esco/skill/b970e437-2f8b-42e3-ae49-6718a0cca44f
	Skill/competen.	advise on carbon emissions reduction	http://data.europa.eu/esco/skill/c8b4b02c-d9ce-4e24-ab43-5dd52c6dff48
		advise on chemical use reduction	http://data.europa.eu/esco/skill/09c28e46-712a-4c11-a4ae-67ae554ea940
		advise on environmental remediation	http://data.europa.eu/esco/skill/b422efe7-b151-4120-86ae-db11a48dd0fa
		advise on environmental risk management systems	http://data.europa.eu/esco/skill/a366bfc5-8d17-4792-a9f0-db0951528dda
		advise on heating systems energy efficiency	http://data.europa.eu/esco/skill/8614b988-b907-473e-a701-47b525959dc8
		advise on offshore renewable energies subjects	http://data.europa.eu/esco/skill/610ccf09-e9f2-4268-bb93-442dde5bf26e
		advise on pollution prevention	http://data.europa.eu/esco/skill/4d032f82-6279-48e6-9892-116440a071e3
		advise on sustainability solutions	http://data.europa.eu/esco/skill/dbef5042-4b99-4e6f-b2ed-1d33b07b3ed6
		advise on sustainable management policies	http://data.europa.eu/esco/skill/6742977a-aa00-4c8c-9861-898b0373907e
		advise on waste management procedures	http://data.europa.eu/esco/skill/f82b05a7-128b-4a72-a815-044ff6062f62
		analyse energy consumption	http://data.europa.eu/esco/skill/29bfe2cd-f011-4f94-a3aa-f77768e60460
		apply forest legislation	http://data.europa.eu/esco/skill/23072dbb-e93b-48ab-8756-c64f74aaab26
		apply insulation strips	http://data.europa.eu/esco/skill/be973dc1-6aa9-4aed-954c-644affe78639

		assess contamination	http://data.europa.eu/esco/skill/3727f0d3-da1b-4ce3-a9cb-efe6130fe41f
		assess environmental impact	http://data.europa.eu/esco/skill/e541c69c-ea80-4b17-87cb-4001d0b9d303
		assess impact of industrial activities	http://data.europa.eu/esco/skill/1c9bb265-6ff7-428e-9a72-9c8df75178b8
		avoid contamination	http://data.europa.eu/esco/skill/5483c363-e942-4787-8686-0f29c593357f
		calculate solar panel orientation	http://data.europa.eu/esco/skill/5bf756dd-a54a-47cd-80fe-3418fedd1c51
		carry out energy management of facilities	http://data.europa.eu/esco/skill/885808f7-f42b-406e-95f2-28efcd45ddda
		carry out environmental audits	http://data.europa.eu/esco/skill/60ab2bf7-c812-4a88-86c0-7c81a9b2f77c
		carry out training in environmental matters	http://data.europa.eu/esco/skill/2cb27e30-2be7-4a09-9502-fdd2102c046b
		carry out waste water treatment	http://data.europa.eu/esco/skill/5206a9b8-8337-4f0b-ae00-163a2f55d8cf
		collect biological data	http://data.europa.eu/esco/skill/e3fcd642-5f9c-48ee-be58-258dd895d281
		collect industrial waste	http://data.europa.eu/esco/skill/28bc5334-5372-4bd6-8458-c2b516dd6104
		conduct environmental site assessments	http://data.europa.eu/esco/skill/f12f094b-492f-4e88-b36b-50b8e58b7500
		conduct environmental surveys	http://data.europa.eu/esco/skill/96835f47-da71-415b-8cbf-d37386dc98d4
		conduct research on climate processes	http://data.europa.eu/esco/skill/442328a8-8a11-4e15-b80c-402a9bd5844d
		coordinate environmental efforts	http://data.europa.eu/esco/skill/bd70f004-e1d6-43f0-96f1-59c014a4ea01
		develop energy saving concepts	http://data.europa.eu/esco/skill/0037c821-2898-4919-b96e-7ed1cd89554c
		develop environmental policy	http://data.europa.eu/esco/skill/507e2b21-1285-47e9-bf09-0db794df1bf0

		develop environmental remediation strategies	http://data.europa.eu/esco/skill/e4ff825c-7376-4135-93cd-3892fd67b7c1
		develop flood remediation strategies	http://data.europa.eu/esco/skill/6b5d032a-b85a-44ea-9dad-5201048d2dd2
		develop water purification methods	http://data.europa.eu/esco/skill/6af000e5-a451-4f78-9feb-723971f2ad05
		dispose of hazardous waste	http://data.europa.eu/esco/skill/40fa39b5-0f69-432a-b5ea-b01b5d98649a
		dispose of non-hazardous waste	http://data.europa.eu/esco/skill/4aba6668-6118-4953-804b-869cef94422a
		dispose of sewage sludge	http://data.europa.eu/esco/skill/5cddc62d-3958-4390-b17e-0aecb5848c40
		ensure compliance with environmental legislation	http://data.europa.eu/esco/skill/089ee650-297e-4716-87d1-440743b70a0d
		ensure compliance with noise standards	http://data.europa.eu/esco/skill/351cd749-498c-4ed3-9e38-58fc9bbf8f0e
		follow health and safety procedures in construction	http://data.europa.eu/esco/skill/86df7af2-f9f3-4c06-a500-7f1fba9e78fe
		follow recycling collection schedules	http://data.europa.eu/esco/skill/ca4ae285-244f-4321-83d6-b109bd1693bc
		identify new recycling opportunities	http://data.europa.eu/esco/skill/89f5fa96-ae45-4906-902c-d50ca51009c6
		implement environmental protection measures	http://data.europa.eu/esco/skill/f6d7ba88-5234-4994-944d-843ca453c923
		inform customers environmental protection	http://data.europa.eu/esco/skill/e671c957-b998-49df-b630-7908806966f1
		inspect industrial equipment	http://data.europa.eu/esco/skill/94747ff4-603d-47d4-9780-bf53be41e190

	inspect offshore constructions	http://data.europa.eu/esco/skill/013a64b9-5e74-4f7f-af5b-9ec76715238b
	inspect water wells	http://data.europa.eu/esco/skill/3a560dc4-ee2e-4437-b94f-c076a2b5f25e
	install heat pump	http://data.europa.eu/esco/skill/00735755-adc6-4ea0-b034-b8caff339c9f
	install solar water heater	http://data.europa.eu/esco/skill/2a74063a-d4b1-42fb-bc90-cb8c06ff53ec
	interpret scientific data to assess water quality	http://data.europa.eu/esco/skill/07ec6866-d283-46a6-991c-e8ce0c6fc159
	investigate complaints about improper waste handling	http://data.europa.eu/esco/skill/8dcdd2f0-1784-488f-9821-82a09c4f2cee
	investigate contamination	http://data.europa.eu/esco/skill/e4698f9f-bb23-486e-a74a-c8f3a19c3132
	maintain recycling records	http://data.europa.eu/esco/skill/44a4f189-7414-402c-9c1d-c85743f34d0c
	maintain solar energy systems	http://data.europa.eu/esco/skill/9cf2856d-0375-4ec3-a51f-7f9c82119859
	manage air quality	http://data.europa.eu/esco/skill/9f763ac3-1d6c-48d2-ab54-324b1b144f40
	manage environmental impact	http://data.europa.eu/esco/skill/d3a8ef9c-8572-438c-91dc-010537070be3
	manage environmental impact of operations	http://data.europa.eu/esco/skill/d86babea-bf8b-4552-81a8-daf706066ad6
	manage environmental management system	http://data.europa.eu/esco/skill/b13e0689-636d-42d0-86c3-df9d6f85a882
	manage recycling program budget	http://data.europa.eu/esco/skill/d9d3eb78-a7c6-4076-9e19-df225af2ec62
	manage waste	http://data.europa.eu/esco/skill/73a9561d-112c-4d8a-9d5f-b2c11c5bbd5f
	manage water quality testing	http://data.europa.eu/esco/skill/1aae38c8-f75a-4009-8aa0-c5fa94b06e6b
	measure company's sustainability performance	http://data.europa.eu/esco/skill/d53eab76-e8ff-4e28-af26-7e012951c763

	mine dump design	http://data.europa.eu/esco/skill/cfbe1cdb-1738-45a1-b442-75cbda1fff06
	mitigate environmental impact of pipeline projects	http://data.europa.eu/esco/skill/564e86a6-0916-44e6-b3d6-d99bc0c1f194
	mitigate waste of resources	http://data.europa.eu/esco/skill/d2c81ad1-2439-43cf-9c63-204187b8f771
	monitor manufacturing impact	http://data.europa.eu/esco/skill/3d69b305-4051-4c1d-ba1e-d8c5b35e22db
	operate recycling processing equipment	http://data.europa.eu/esco/skill/1fe682ad-b8a2-44bb-a557-7eccf79b2014
	perform cleaning activities in an environmentally friendly way	http://data.europa.eu/esco/skill/4fb7f781-9362-426a-9eb6-65c360f83e31
	produce sustainable products	http://data.europa.eu/esco/skill/97725325-5287-4ebb-9f83-1ba2c38f465c
	promote environmental awareness	http://data.europa.eu/esco/skill/8abdc43c-2bfd-417c-97c2-27fcdf53171
	promote sustainability	http://data.europa.eu/esco/skill/469e19ed-a0bd-445a-ae2d-4ba9430e296b
	promote sustainable interior design	http://data.europa.eu/esco/skill/9263f0d8-7266-4782-b0ee-38f62656e97e
	provide information on solar panels	http://data.europa.eu/esco/skill/7832b684-580c-4eaf-a8b3-322164b041ab
	replace defect components	http://data.europa.eu/esco/skill/87af00b5-30fa-41c8-bfa5-357f22c8d589
	report on environmental issues	http://data.europa.eu/esco/skill/f3cc52e3-a96c-4549-b841-6e41a846fa99
	train staff on recycling programs	http://data.europa.eu/esco/skill/b30c2dd2-996c-4984-9c68-ce05bf26f1e1
	use environmental friendly materials	http://data.europa.eu/esco/skill/9438b0dc-062a-4893-b176-959706e4ae1e
	use sustainable materials and components	http://data.europa.eu/esco/skill/73576419-31c2-4e45-8e30-ab1afec3db4e

occupat-specific	knowledge	biofilter systems	http://data.europa.eu/esco/skill/b2b970ad-0276-4069-ba31-899a53191b95
		energy saving potential of automated shift systems	http://data.europa.eu/esco/skill/15c522eb-cd6d-4b00-9d95-db20c0f8df88
		geothermal power generation methods	http://data.europa.eu/esco/skill/a929f335-e5b9-4f8f-a052-0a8b166d595c
		land use for airport planning	http://data.europa.eu/esco/skill/27b6623b-e09c-4112-9672-8ddb9e354b9e
		plants contribution to indoor climate and health conditions	http://data.europa.eu/esco/skill/34147067-562c-4e5f-8dec-40972ccf29b6
		regulation on the discharge of raw materials into the sea	http://data.europa.eu/esco/skill/8c609e7c-5002-41a7-b629-0b98f132afb0
		sustainable building design	http://data.europa.eu/esco/skill/5def6d00-daed-4d21-af9e-47938cf1877f
		water consumption	http://data.europa.eu/esco/skill/72886bc5-eeb0-42d5-9b01-f83b4cf138b4
	Skill/competen.	advise on corporate social responsibility	http://data.europa.eu/esco/skill/b2f05068-c409-43ec-ba58-b5dfe991ca5e
		collect broken appliances	http://data.europa.eu/esco/skill/901297b8-9f66-431b-a6ab-bc2235acf056
		conserve water resource	http://data.europa.eu/esco/skill/fd2930ce-cd21-4eb2-87f7-115c3d197e24
		design hybrid operating strategies	http://data.europa.eu/esco/skill/e979659d-d06e-4968-b4b2-ac51e379b552
		develop bioremediation techniques	http://data.europa.eu/esco/skill/23cb29ec-5738-4966-8453-09952ed8c1fc
		develop green compounding solutions	http://data.europa.eu/esco/skill/3ecde258-d1c6-4d6a-bfa7-ec4c5e4fc700
		install concentrated solar power systems	http://data.europa.eu/esco/skill/982ccb23-102c-4d7a-a899-4df50a032def
		install onshore wind energy systems	http://data.europa.eu/esco/skill/4e0ba879-1cf3-4260-822b-2c2e3cc5e269
		install photovoltaic systems	http://data.europa.eu/esco/skill/18d3f89a-6ac5-4ca6-bf93-0baec4e13bcd

		maintain biogas plant	http://data.europa.eu/esco/skill/8e01e994-0e09-4fbb-a76b-7f615678cc7d
		make paper slurry	http://data.europa.eu/esco/skill/37ba5509-9665-4947-a5ae-f124d5769473
		manage plans for the storage of organic by-products	http://data.europa.eu/esco/skill/17447ce4-4c4a-4158-b1ea-03ed5364b4e8
		manage plans for the utilisation of organic by-products	http://data.europa.eu/esco/skill/8f98653a-4aee-4619-91c7-0cdc2f8e225a
		minimise environmental impact on the surrounding area	http://data.europa.eu/esco/skill/44493977-83c4-49e0-88b2-28435da57cd0
		model groundwater	http://data.europa.eu/esco/skill/d1ee1caa-1956-48f6-a009-318204bf908e
		monitor grounds	http://data.europa.eu/esco/skill/8c7707b3-cd9b-405a-b2e5-9df24172d4f9
		mount photovoltaic panels	http://data.europa.eu/esco/skill/08a5f6dd-d3dd-4371-9919-6d730f34499c
		operate biogas plant	http://data.europa.eu/esco/skill/0e81fcff-2fb5-4c87-afc2-49b5e5d9db50
		oversee park land use	http://data.europa.eu/esco/skill/6444575a-b656-4de3-abd3-e89118b36b34
		plan water resource development	http://data.europa.eu/esco/skill/4c5fed97-939f-4050-adc0-7adaf15065e5
		prevent kiln loss of heat	http://data.europa.eu/esco/skill/7c2c81fe-b5f5-4691-a58d-7fd0a8b6c0e1
		promote responsible consumer behaviour	http://data.europa.eu/esco/skill/e1da04bb-4de8-4d17-af8a-75ea893fe36a
		promote sustainable packaging	http://data.europa.eu/esco/skill/51399b1c-15d6-4e4c-8673-30c25a094fce
		propose alternative rubber compound ingredients	http://data.europa.eu/esco/skill/4562497f-836c-415a-b5ce-4ec3b5766d09
		restore natural environment after drilling proofs	http://data.europa.eu/esco/skill/407b1474-7cfb-4538-823b-7667604f0267

		study the relationship between buildings, people and the environment	http://data.europa.eu/esco/skill/c5afeb33-4291-44c9-a89a-373185d0bfef
		test tightness and pressure of refrigeration circuits	http://data.europa.eu/esco/skill/bce60ecd-ceee-4dbd-b619-70c9789ec634
		use sound measuring instruments	http://data.europa.eu/esco/skill/9ecd4016-b9de-480d-8ec3-9881644f0eda
sector-specific	knowledge	airport environmental regulations	http://data.europa.eu/esco/skill/23dc8bb2-1091-461e-9095-a048b7ffa009
		airtight construction	http://data.europa.eu/esco/skill/589f0d24-0846-4971-bc6c-a42bb274f69a
		alternative fuels	http://data.europa.eu/esco/skill/e9ff446f-6a8a-4e35-a611-176508964be3
		artificial lighting systems	http://data.europa.eu/esco/skill/829d1376-41bf-4c41-9bc3-62dce647677c
		corporate social responsibility	http://data.europa.eu/esco/skill/66db424f-2abe-420d-8e5b-186607266b61
		corporate sustainability	http://data.europa.eu/esco/skill/f5bf985b-ac78-4d23-881a-18a359234528
		decontamination techniques	http://data.europa.eu/esco/skill/2dd79277-f639-463d-b74f-00b7501d742d
		discharge of collected waste	http://data.europa.eu/esco/skill/30783499-3872-4b14-9684-6217e98c6e1d
		distribution of heating cooling and hot water	http://data.europa.eu/esco/skill/debd4fe7-58c9-499e-8a7e-b42984afe728
		district heating and cooling	http://data.europa.eu/esco/skill/ef010091-ddce-410d-9864-9276ef6fe390
		domotic systems	http://data.europa.eu/esco/skill/d81b58ba-52e4-45fa-9f7c-f59b87fa6041
		electric heating systems	http://data.europa.eu/esco/skill/2bc626f8-32ce-4131-9f65-c52929d55a95
		energy efficiency	http://data.europa.eu/esco/skill/83fc0b2b-6cd2-46af-b1ff-d3fc83604c26
		envelope systems for buildings	http://data.europa.eu/esco/skill/63f9a5bc-f070-46a6-bea7-c6b9e9dbacc3
		environmental indoor quality	http://data.europa.eu/esco/skill/e9e57db9-a6ef-4e44-a33c-a022d7c4a17f

	environmental management monitors	http://data.europa.eu/esco/skill/e3f2c37f-e484-4b4c-ad82-f565a2b98f89
	environmental threats	http://data.europa.eu/esco/skill/81af8698-9873-4b3d-b6d2-8eb275bf170b
	geothermal energy	http://data.europa.eu/esco/skill/5195eebc-f400-467c-97a3-6f9fbf136169
	geothermal energy systems	http://data.europa.eu/esco/skill/3c1622fc-6c95-4b51-98da-1814ebe6e889
	global standards for sustainability reporting	http://data.europa.eu/esco/skill/4300b453-9bcf-474c-9ee3-92ec2229720c
	green bonds	http://data.europa.eu/esco/skill/86f0bb12-6491-4be7-8306-c88900e91a63
	green building practices	http://data.europa.eu/esco/skill/c3ac5c4c-b4b9-4842-b871-43e12cfc0442
	green building standards	http://data.europa.eu/esco/skill/7f4d1dee-bc5a-495a-926b-17b383b8d8fd
	green chemistry	http://data.europa.eu/esco/skill/b589fa82-f177-4cce-9fb4-31bbbebf792b
	habitat restoration	http://data.europa.eu/esco/skill/29c60c96-d71c-4a6e-ad81-fca0a4e48925
	integrated design	http://data.europa.eu/esco/skill/f03a3387-c4a7-41e3-a5d4-dd4577147940
	mini wind power generation	http://data.europa.eu/esco/skill/9be02d2d-9d45-400b-aa05-1e9aee7bd815
	natural areas maintenance	http://data.europa.eu/esco/skill/6825a7dd-c2da-40fa-b745-508ff20ee293
	offshore constructions and facilities	http://data.europa.eu/esco/skill/9b04cd15-b9c4-442d-9bbb-32e1b2058dca
	offshore renewable energy technologies	http://data.europa.eu/esco/skill/aadf267e-08f0-4bf3-ae4a-f1670b8e9e5d
	organic building materials	http://data.europa.eu/esco/skill/60097ab6-722e-4a22-9f3e-40aecb24daef
	photovoltaic systems	http://data.europa.eu/esco/skill/e45507ff-c1e2-4e0c-92fb-b6c0e6cb6245
	pollution legislation	http://data.europa.eu/esco/skill/5641a2af-9eb2-4209-9fc6-856f78f2d2f2
	smart grids systems	http://data.europa.eu/esco/skill/79a5bc25-5b59-47bc-a4c2-fb8e8cb1ddf6

		social alliances	http://data.europa.eu/esco/skill/10ff3d22-1f29-48bc-98e4-63fc61c78034
		social enterprise	http://data.europa.eu/esco/skill/2f4cdc7e-d98d-4e6c-9811-3dc28255c7ff
		solar absorption cooling system	http://data.europa.eu/esco/skill/9ccb56ee-3d5f-4d48-8692-8f96fe1e4adb
		solar panel mounting systems	http://data.europa.eu/esco/skill/9f719da2-5ba8-46b8-b20b-3d5f59208f49
		sustainability consulting	http://data.europa.eu/esco/skill/d84326c9-a3d3-4e22-a6a1-1ad42a356f10
		sustainable building materials	http://data.europa.eu/esco/skill/dada8e80-2a53-41bf-9eac-f8c1f9971bed
		sustainable finance	http://data.europa.eu/esco/skill/203083ca-b051-4c28-8986-fc8731bacee5
		sustainable installation materials	http://data.europa.eu/esco/skill/303c6ab0-21c3-4b09-ac77-d405936857d9
		types of heat pumps	http://data.europa.eu/esco/skill/59998878-fa14-458a-9085-06b45e89df1b
		types of tidal stream generators	http://data.europa.eu/esco/skill/0aabb61b-5382-490a-bf44-375858f9cd3e
		types of wave energy converters	http://data.europa.eu/esco/skill/7d70ed20-1c29-4ce3-bda5-9ba6c957a2d2
		urban pollution implications	http://data.europa.eu/esco/skill/c3bb5700-a94d-407a-8cd0-147727378f25
		urban sustainability	http://data.europa.eu/esco/skill/538f8bc6-a5bf-422b-8112-5ad3fe9de9a0
		wind energy	http://data.europa.eu/esco/skill/25fb676a-cf69-487d-a9c1-273c6f291b6a
		wood preservation	http://data.europa.eu/esco/skill/6044d62b-7499-4c5d-81ae-2fea443013b2
		zero-energy building design	http://data.europa.eu/esco/skill/46454506-fb7c-4ad7-84e0-d4a6a5589ea1
	Skill/competen.	abide by regulations on banned materials	http://data.europa.eu/esco/skill/c0ccbd15-36f3-4515-ae0b-b4062d225ee2
		advise customers on building materials	http://data.europa.eu/esco/skill/1b73b2a7-aefc-49ef-8b30-b90ca7429984
		advise on fitted ventilation systems	http://data.europa.eu/esco/skill/1de91358-6ad3-4513-b975-396c61cf8858

	advise on mining environmental issues	http://data.europa.eu/esco/skill/Oe0b8991-4b24-4bb8-9113-df3ce43c1ff9
	advise on utility consumption	http://data.europa.eu/esco/skill/1ab1449d-5b65-458b-b115-f5283a52da8e
	analyse environmental data	http://data.europa.eu/esco/skill/77f109c4-3107-4d2a-a512-5160ac103933
	apply procedures and regulations for eco-labelling	http://data.europa.eu/esco/skill/670ebf56-761c-4d3d-865a-db14085b77f7
	assess energy consumption of ventilation systems	http://data.europa.eu/esco/skill/ba54cf3c-dd64-48ea-8a9d-ee621a05fb07
	assess the life cycle of resources	http://data.europa.eu/esco/skill/4e87c852-602a-4a0e-b8d8-20709ce14ac5
	assess waste type	http://data.europa.eu/esco/skill/1ead478f-4e9d-4aa7-a728-823fc1e894f5
	collaborate on international energy projects	http://data.europa.eu/esco/skill/c565e722-0e14-4f57-99ff-267dd9ea2510
	communicate on the environmental impact of mining	http://data.europa.eu/esco/skill/8df86db8-dfcd-414b-854f-ad1cdb18d733
	conduct energy audit	http://data.europa.eu/esco/skill/Oad6d5e8-593f-4191-843c-439b23a468ca
	conduct erosion control	http://data.europa.eu/esco/skill/89a94a26-29d4-4cd7-9e9d-faebc300c1b1
	conserve natural resources	http://data.europa.eu/esco/skill/b25c3eb8-fd63-4d77-8308-7061dbd271c1
	coordinate waste management procedures	http://data.europa.eu/esco/skill/9349f502-9c11-476c-957d-2e016790a2ee
	design a combined heat and power system	http://data.europa.eu/esco/skill/e5dec2-5636-4ff2-b9bc-dca6cbfc5f72
	design a domotic system in buildings	http://data.europa.eu/esco/skill/27ad6528-0914-4049-87c0-2f05791d0e2e
	design a mini wind power system	http://data.europa.eu/esco/skill/df179770-1c8d-4673-a270-481b7e4e6010

	design a solar absorption cooling system	http://data.europa.eu/esco/skill/17446f6d-d8b0-4945-a37b-9ad0dfc9f3e8
	design a solar heating system	http://data.europa.eu/esco/skill/30685aeb-512f-4517-adc8-63bdc1eefb8e
	design an artificial lighting system	http://data.europa.eu/esco/skill/f76eeb55-2ad1-40ef-ba09-fa60e2c28b40
	design an electric heating system	http://data.europa.eu/esco/skill/73cc1ce2-4ada-4ae1-9f8e-d7efadcd52f6
	design biomass installations	http://data.europa.eu/esco/skill/0082c13b-5866-4542-bc4f-722a4ae9530e
	design building air tightness	http://data.europa.eu/esco/skill/2eea3fd6-82ee-4334-8e36-62a0707cade1
	design building envelope systems	http://data.europa.eu/esco/skill/cc0a45a7-4883-4122-af11-7ca6c45a37c2
	design building retrofitting solutions	http://data.europa.eu/esco/skill/44d5340c-45df-4478-9e55-2363342a7324
	design district heating and cooling energy systems	http://data.europa.eu/esco/skill/60032986-43ac-4c26-a830-c825f3fa205a
	design drainage well systems	http://data.europa.eu/esco/skill/397412dc-47c4-4580-82d0-15a9f9a86ea2
	design geothermal energy systems	http://data.europa.eu/esco/skill/f85c6fbb-51c9-4b3f-adc9-391df4b2da65
	design heat pump installations	http://data.europa.eu/esco/skill/3e37d714-4d65-416d-a138-46f7e2a98073
	design microclimates in buildings	http://data.europa.eu/esco/skill/9c07b3e2-b919-4594-b6f2-e01df6e9390f
	design offshore energy systems	http://data.europa.eu/esco/skill/7ac88283-80aa-4a1f-93f8-213cd2a469cb
	design passive energy measures	http://data.europa.eu/esco/skill/ce689fb5-2c21-4f96-a4b0-d02d4af35923
	design smart grids	http://data.europa.eu/esco/skill/4e0a7f6e-b546-4cc6-9f8b-53e4fa31a426
	design solar energy systems	http://data.europa.eu/esco/skill/50ac5186-bb18-4ffb-9f29-00636853c8ea
	design the insulation concept	http://data.europa.eu/esco/skill/3b4f2a64-9884-4f3d-8020-44dc95919a7c
	design thermal equipment	http://data.europa.eu/esco/skill/f2071535-4da0-4253-a548-920d170b80e0

	design wind farm collector systems	http://data.europa.eu/esco/skill/8604cb5f-9e1f-427c-ba23-3c4a6853fe95
	design wind turbines	http://data.europa.eu/esco/skill/f14cfbac-07c5-43de-8b63-51518be99826
	design window and glazing systems	http://data.europa.eu/esco/skill/9b5aa426-7daa-4143-8d70-c3623e8c7e60
	determine appropriate heating and cooling system	http://data.europa.eu/esco/skill/128f318e-1bc8-4921-821f-b0aad1d98922
	determine internal air quality parameters	http://data.europa.eu/esco/skill/21934d08-3535-4dc2-ae67-fde9fd21dc60
	develop efficiency plans for logistics operations	http://data.europa.eu/esco/skill/f672b7a0-698e-45f1-a102-51adeaf89200
	develop energy policy	http://data.europa.eu/esco/skill/c4e9f0d0-bbdd-42d7-83a5-2c131f6d67c2
	develop irrigation strategies	http://data.europa.eu/esco/skill/189777b9-6e95-4f76-b8db-f8e0f0477bc6
	develop recycling programs	http://data.europa.eu/esco/skill/862920c8-f2d0-4058-8fb8-9f06fbfc2446
	develop site remediation strategies	http://data.europa.eu/esco/skill/45b79278-465a-4eed-8809-369318bab119
	develop waste management processes	http://data.europa.eu/esco/skill/114a79ef-1e62-475b-a862-954f5b4cca20
	dispose of chemicals	http://data.europa.eu/esco/skill/458d8ab9-a385-4e78-9638-1c3f9ce3c586
	drain hazardous liquids	http://data.europa.eu/esco/skill/6937f761-607c-4f9f-ab56-549e875a5deb
	educate on hazardous waste	http://data.europa.eu/esco/skill/63eee3cc-9864-485e-bb95-5daa145d0c78
	educate on recycling regulations	http://data.europa.eu/esco/skill/2be2d20e-1191-4f85-8f8c-d49a60ca428a
	educate people about nature	http://data.europa.eu/esco/skill/76f552ef-bb2d-4f66-83a8-ad205086967e
	employ habitat survey techniques	http://data.europa.eu/esco/skill/9dfab993-ecab-4292-9cb2-528a93eb3161
	enforce fuel storage regulations	http://data.europa.eu/esco/skill/b013ae1f-5efc-42b5-8dab-8a8add39bbd8

	ensure correct goods labelling	http://data.europa.eu/esco/skill/6fcf2fc7-7b74-42e5-845f-f5854fd44f37
	ensure efficient utilisation of warehouse space	http://data.europa.eu/esco/skill/5b91b6d4-345e-4195-a078-218514871e7b
	establish green roof	http://data.europa.eu/esco/skill/9a354775-1a03-4258-a357-be4ab0a07465
	evaluate integrated design of buildings	http://data.europa.eu/esco/skill/bf9a2403-850d-4dd3-b266-edaabebc8ab0
	follow procedures to control substances hazardous to health	http://data.europa.eu/esco/skill/02e235f4-a30a-412a-a06e-1c471ad28678
	grind wasted plastic	http://data.europa.eu/esco/skill/c9b97523-d520-4494-aa60-e3bc9ef0d8a4
	handle mining plant waste	http://data.europa.eu/esco/skill/a2723f98-0fb2-469b-8c79-7ad2d0f73660
	identify energy needs	http://data.europa.eu/esco/skill/96d901a6-c931-4e8d-b685-a47e1deaaa1b
	identify fitted source for heat pumps	http://data.europa.eu/esco/skill/97b473ae-8535-498d-9999-cc77549c5e50
	implement biodiversity action plans	http://data.europa.eu/esco/skill/d168d98c-b7bb-4b9a-b1dc-eac008af4df3
	implement environmental action plans	http://data.europa.eu/esco/skill/59004ee8-3975-4877-bf82-ff0b8070ef28
	implement sustainable procurement	http://data.europa.eu/esco/skill/6962058d-9808-4820-a6bc-d7cabce60cde
	inspect recycling procedures	http://data.europa.eu/esco/skill/4b5f0aeb-875b-4afb-befc-2465b45602d8
	inspect roof for source of rainwater contamination	http://data.europa.eu/esco/skill/29f57ff2-2f7f-41e2-a1ed-30b3175c91a3
	inspect tidal stream generators	http://data.europa.eu/esco/skill/f64b7f4d-e89e-4920-8674-b75a9cd63389
	inspect wave energy converters	http://data.europa.eu/esco/skill/f9b7be6c-29a0-4021-980e-a0e3b0005205

		install offshore renewable energy systems	http://data.europa.eu/esco/skill/64091c5d-a448-4f01-8a80-058ff91483ab
		install recycling containers	http://data.europa.eu/esco/skill/c582dd36-a83d-4d61-b87a-364b84950a3f
		install water purity mechanism	http://data.europa.eu/esco/skill/d9beab8e-1bd0-42a3-bf3e-58a8f647ad96
		instruct on energy saving technologies	http://data.europa.eu/esco/skill/ecd368bc-6383-4a03-9b61-46e0a94750f7
		integrate biogas energy in buildings	http://data.europa.eu/esco/skill/3dffcb35-26d4-4fee-8517-002f9e40508a
		investigate microclimates for buildings	http://data.europa.eu/esco/skill/4efb00d2-e8b3-4d13-8ab7-70bc7a0a8af9
		investigate pollution	http://data.europa.eu/esco/skill/2c8199c8-4e40-49b3-b878-caee6e1c1bc0
		maintain concentrated solar power systems	http://data.europa.eu/esco/skill/8570573a-937b-406a-b4b2-1def0387d0d1
		maintain irrigation controllers	http://data.europa.eu/esco/skill/2f05d09d-7e91-423c-9210-19da0b0e34c6
		maintain photovoltaic systems	http://data.europa.eu/esco/skill/33784b61-bd86-4451-8a89-741ada5f8475
		maintain water treatment equipment	http://data.europa.eu/esco/skill/2a45f2d1-8f1a-4c62-9332-cfd3535d9d35
		maintain wind turbines	http://data.europa.eu/esco/skill/b7a26b32-c457-49aa-9a78-25ade10090e3
		manage conservation of natural and cultural heritage	http://data.europa.eu/esco/skill/3a519990-ae6c-4c8b-a827-2bf96d949940
		measure pollution	http://data.europa.eu/esco/skill/5aec5b83-df71-483e-90b9-21e56a0a3cb2
		monitor civic recycling sites	http://data.europa.eu/esco/skill/1a09db78-cbcf-428a-a23c-5c3f3951cc4c
		monitor ingredient storage	http://data.europa.eu/esco/skill/1c8a92d4-18b9-4279-898c-ad89233bb511

		operate solar thermal energy systems for hot water and heating	http://data.europa.eu/esco/skill/ab0deac2-b872-45c8-ad65-657938d2fe79
		operate water-heating equipment	http://data.europa.eu/esco/skill/988f696e-01c9-4aa5-b024-4aa96505ee0c
		perform a feasibility study for building management systems	http://data.europa.eu/esco/skill/01895f13-1989-4756-80d6-9b9ee19ddb32
		perform a feasibility study on biogas energy	http://data.europa.eu/esco/skill/aaa84f7f-4006-4d9b-81e0-e8eeacdde025
		perform a feasibility study on biomass systems	http://data.europa.eu/esco/skill/da896663-08b3-409d-aa3d-31f39a8e8d2b
		perform a feasibility study on district heating and cooling	http://data.europa.eu/esco/skill/1e2e8415-0a45-466b-ba7b-25c0e72538c1
		perform a feasibility study on electric heating	http://data.europa.eu/esco/skill/23872ce8-ea42-44ac-9b00-ccc0dc407209
		perform a feasibility study on heat pumps	http://data.europa.eu/esco/skill/395ace35-e463-4dc7-8181-c2dd43885107
		perform a feasibility study on mini wind power	http://data.europa.eu/esco/skill/06a4004d-ee47-44ff-ae2f-a038ba0c0256
		perform a feasibility study on solar absorption cooling	http://data.europa.eu/esco/skill/1e3222fa-724d-41f0-9b0a-e88d1003cd35
		perform energy simulations	http://data.europa.eu/esco/skill/ffa1d58b-ba09-49bd-a982-e743b2237006
		perform environmental investigations	http://data.europa.eu/esco/skill/3f82a026-8a37-4b54-9ebb-7702b66eeb24
		perform environmental remediation	http://data.europa.eu/esco/skill/85f73cdf-fb6f-434d-8fff-fcd723834a90

		perform feasibility study on geothermal energy	http://data.europa.eu/esco/skill/b71fc6e4-14eb-488b-9f26-a7c15fd6d6e8
		perform feasibility study on solar heating	http://data.europa.eu/esco/skill/6561f116-70de-47d8-80b8-f0e2a1d2cf11
		perform selective demolition	http://data.europa.eu/esco/skill/3bf93cf6-2b6f-46ad-b0ba-3b161379bac1
		perform smart grid feasibility study	http://data.europa.eu/esco/skill/ec66a2f9-db12-4eec-936a-47632bfdccfb
		perform water treatment procedures	http://data.europa.eu/esco/skill/8bcf4ef0-edda-4f6a-a1ce-7defb1d324d6
		perform water treatments	http://data.europa.eu/esco/skill/2afefe51-4dcf-4314-a014-7c0477ee7372
		prepare energy performance contracts	http://data.europa.eu/esco/skill/052b829c-67c5-466f-9300-OeOb001a68ef
		prevent marine pollution	http://data.europa.eu/esco/skill/fac6dbca-0d38-48a0-a255-d2beea8156d6
		prevent sea pollution	http://data.europa.eu/esco/skill/6b41fcd8-85eb-4b27-b409-05ffcc663a3d
		promote innovative infrastructure design	http://data.europa.eu/esco/skill/b251544f-7b92-46d5-8e14-97f59ce1c7dc
		promote sustainable energy	http://data.europa.eu/esco/skill/1a6c7e0d-fc13-41d7-a5c0-8ca00606de89
		provide information on geothermal heat pumps	http://data.europa.eu/esco/skill/1cf20c3c-027e-45f4-bad1-c91b98726d28
		provide information on wind turbines	http://data.europa.eu/esco/skill/7ff9cce1-6518-48db-8f59-2beb81508fb2
		recognise the hazards of dangerous goods	http://data.europa.eu/esco/skill/907039e2-5b33-4ea5-96ca-b6082711b491
		remove contaminated materials	http://data.europa.eu/esco/skill/02619401-8e21-46e5-8f19-204747fd755d
		research locations for offshore farms	http://data.europa.eu/esco/skill/53d89f4e-c819-490d-ad32-fed731f32639

		research locations for wind farms	http://data.europa.eu/esco/skill/45b2a257-1c28-4c84-bc71-a4871e398c54
		research ocean energy projects	http://data.europa.eu/esco/skill/1d4ddf05-510a-424a-85d3-2305558665c5
		safeguard biodiversity	http://data.europa.eu/esco/skill/ae6d655d-bbce-4701-ba04-d687cfa90eda
		select sustainable technologies in design	http://data.europa.eu/esco/skill/c214d86e-fbb8-45c0-87d4-f2cefc954057
		shift energy demands	http://data.europa.eu/esco/skill/c1de3963-05eb-4e45-8496-58156a345fb1
		store contaminated materials	http://data.europa.eu/esco/skill/389bd8c7-32c4-4a77-b07c-572fc210d247
		store sorted waste	http://data.europa.eu/esco/skill/5efd3b-9c19-4b1c-ac41-7347493da37d
		supervise waste disposal	http://data.europa.eu/esco/skill/2a2e85d7-75cc-40b4-8a34-8227d72eb84
		supervise waste water treatments	http://data.europa.eu/esco/skill/fcc29203-1f8d-4c54-90ee-78cb18467695
		test samples for pollutants	http://data.europa.eu/esco/skill/82423b5c-486f-42e7-b00e-7358757a8de5
		test wind turbine blades	http://data.europa.eu/esco/skill/101e6f4c-c892-4812-9e2c-f2b888771bb3
		train staff on waste management	http://data.europa.eu/esco/skill/e5f77488-7561-475a-9888-decd2443d37a
		train staff to reduce food waste	http://data.europa.eu/esco/skill/001d46db-035e-4b92-83a3-ed8771e0c123
		treat contaminated water	http://data.europa.eu/esco/skill/d96b6330-c73f-443f-9048-702b2226f62b
		use resource-efficient technologies in hospitality	http://data.europa.eu/esco/skill/d7d53919-5313-4f23-a701-d12f86c03a60
		use water disinfection equipment	http://data.europa.eu/esco/skill/0f4cc60e-820e-439d-8810-31a2cc27ada6
Transvers.	Skill/competen.	adopt ways to foster biodiversity and animal welfare	http://data.europa.eu/esco/skill/0171653e-c8e9-4c24-bb86-a4b6fe038f25

		adopt ways to reduce negative impact of consumption	http://data.europa.eu/esco/skill/4c3ab565-747c-4db3-8c47-79e8d6f98cf4
		adopt ways to reduce pollution	http://data.europa.eu/esco/skill/Od75a128-bd88-4c1b-b70d-8e963aeb490c
		engage others in environment friendly behaviours	http://data.europa.eu/esco/skill/7f321b88-3d16-4e30-8163-5494ca8ce978
		evaluate environmental impact of personal behaviour	http://data.europa.eu/esco/skill/2aaad52d-599e-4e77-a681-bbc236825821

Micro Credentials in Construction

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Work Package 2 Baseline and Enabling Framework



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