Co-funded by the European Commission – Directorate-General for Education, Youth, Sport and Culture

Project Title:

INCREAS -
Innovation and Creative Solutions for Cultural Heritage

INCREAS

Grant Agreement No: 2020-0304

Collaborative Project

Act. 1 Enhance profile of heritage professions and CCIs in ESCO

Activity	Act.1 Enhance profile of heritage professions and CCIs in ESCO
Lead beneficiary	BHoe (Austria)
Authors	Gerald Wagenhofer (UBW), Hanna Paul (UBW)
Delivery date	31.10.2020
Status	Pending
File Name	INCREAS_National Study Report_Austria

Dissemination level		
PU	Public, fully open, e.g. web	X
CO	Confidential, restricted under conditions set out in Model Grant Agreement	
CI	Classified, information as referred to in Commission Decision 2001/844/EC.	

Deliverable administration			
No & name	**National Study Report Austria**		
Author(s)	Gerald Wagenhofer (UBW), Hanna Paul (UBW)		
V	Date	Authors	Description
0.1	2020-09-18	HP	First Draft (Template)
0.2	2021-01-25	HP	Second Draft
0.3	2021-02-02	HP	Third Draft

Table of contents

Tables

1. PUBLISHABLE EXECUTIVE SUMMARY

2. EU DEFINITIONS OF FORMAL, NON-FORMAL AND INFORMAL EDUCATION

2.1 Formal education

Formal learning is the learning that occurs in an organised and structured environment (e.g. in an education or training institution or on the job) and is explicitly designated as learning (in terms of objectives, time or resources). Formal learning is intentional from the learner's point of view. It typically leads to validation and certification.

2.2 Non-Formal education

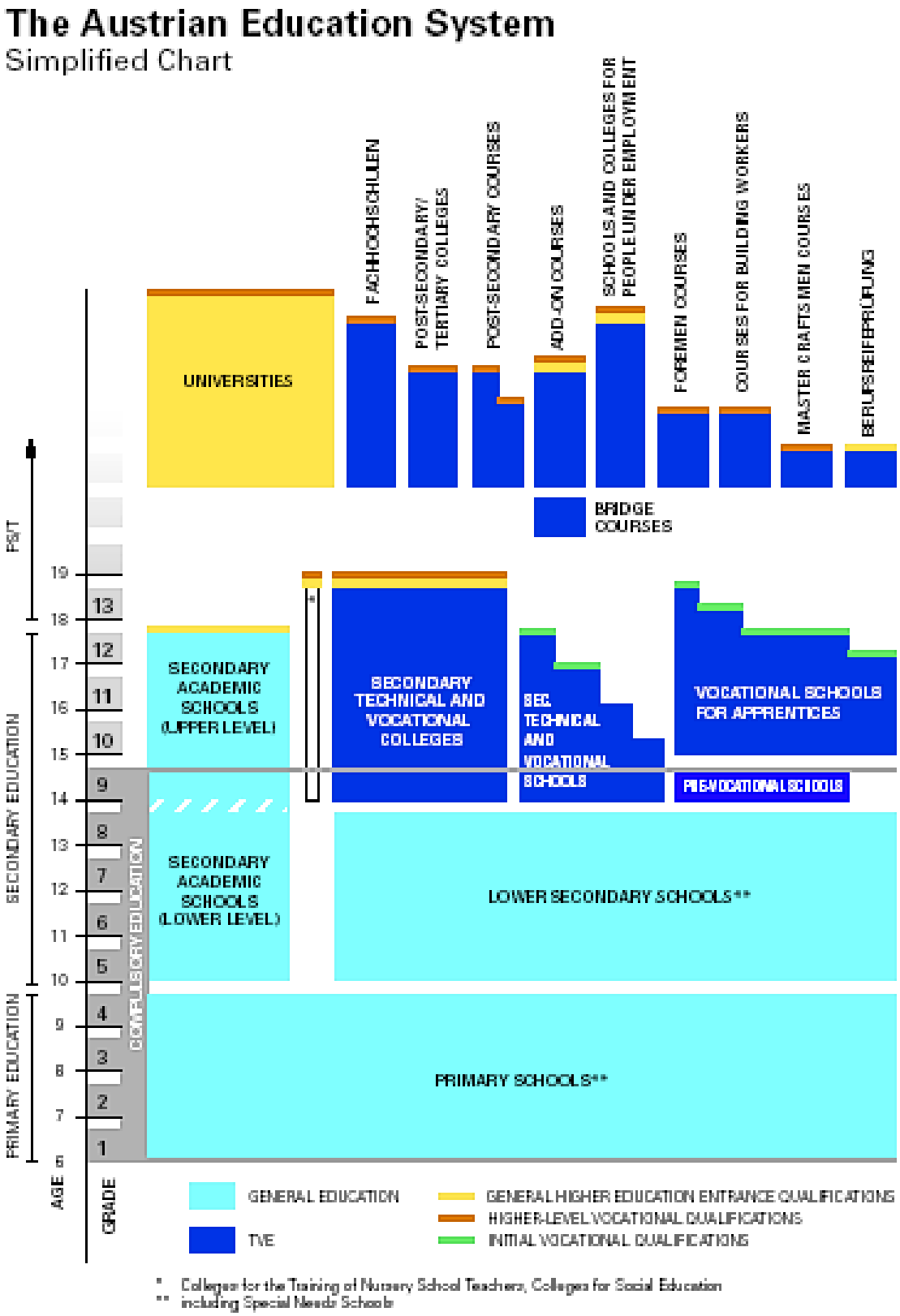
Non-formal learning is a learning which is embedded in planned activities not always explicitly designated as learning (in terms of learning objectives, learning time or learning support), but which contains an important learning element. Non-formal learning is intentional from the learner's point of view.

2.3 Informal education

Informal learning means a learning resulting from daily activities related to work, family or leisure. It is not organised or structured in terms of objectives, time or learning support. Informal learning is mostly unintentional from the learner's perspective.

3. EDUCATION SYSTEM IN AUSTRIA

Table 1: The Austrian education system (example)



4. HIGHER EDUCATION

4.1 Formal Education

4.1.1 Bachelor's degree programme Architecture – University

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	Technische Universität (TU) Wien; Technische Universität (TU) Graz; Universität Innsbruck; Kunstuniversität Linz; Akademie der bildenden Künste Wien
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Proof of university entrance qualification (school leaving certificate of a secondary school, vocational school-leaving certificate, university entrance certificate, completion of a minimum of three years of study at a recognized national institution eg. University or college)
Location (city and country)	Vienna (Vienna); Graz (Styria); Innsbruck (Tyrol); Linz (Upper Austria)
Working language	German
Acquired (academic) title, qualification, professional level	Bachelor of Architecture/ Science
To what entitles this education? a. Access to further education b. Access to occupations	a. The bachelor's program qualifies for a subsequent Masters' degree in Architecture or related field b. career opportunities (examples) • independent office of Architecture and Urban planning • Participation in architectural and planning offices • public administration

	• building and planning departments of enterprises • Project development and Consulting • teaching and research at universities-ties, colleges and technical colleges • Product development in the construction industry • architecture computer science • Architectural Journalism
Curriculum / Content of education (Modules, Elements etc)	• Architecture and Presentation • Geometry • Introduction to Architecture and Structures • Building Construction and Engineering • Drawing and visual languages • Three dimensional design • Introduction to Structural Design • Building Physics and Human Ecology • Building technology • Statics • Building and Planning Law • History of Architecture • Monument protection • Art History • Cultural Studies • … Vienna: Curriculum 033 243 Bachelor programme Architecture | TU Wien Graz: Studienplan - TUGRAZonline - Technische Universität Graz Innsbruck: Microsoft Word - BA Architektur 19w_en.docx (uibk.ac.at) Linz: Kunstuniversität Linz: Programme Structure & Study Focuses (ufg.at)
Background of teachers and trainers	mostly specialized and theoretical training

4.1.2 Master's degree programme Architecture – University

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	Technische Universität (TU) Wien; Technische Universität (TU) Graz; Universität Innsbruck: Kunstuniversität Linz; Akademie der bildenden Künste Wien
Country of sustaining organisation	Austria
Duration of educational activity	2 years
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Candidates must have successfully completed a bachelor's programme in Architecture. Candidates with bachelor's, master's or equivalent degrees in related technical or creative academic subjects may be considered if the scope of these degrees corresponds with that of the bachelor's programme in Architecture.
Location (city and country)	Vienna (Vienna); Graz (Styria); Innsbruck (Tyrol); Linz (Upper Austria)
Working language	German
Acquired (academic) title, qualification, professional level	Diplom-Ingenieur (Dipl.-Ing.) / Master of Science (MSc) / Architecture
To what entitles this education? a. Access to further education b. Access to occupations	a. Doctor's degree; Life-Long-Learning Programmes b. career opportunities (examples) • independent office of Architecture and Urban planning • Participation in architectural and planning offices • public administration • building and planning departments of enterprises • Project development and Consulting • teaching and research at universities-ties, colleges and technical colleges • Product development in the construction industry

	• architecture computer science • Architectural Journalism
Curriculum / Content of education (Modules, Elements etc)	• Master thesis • Design studio • Structural design • Artistic project • Introduction to scientific research • Thermal aspects of building performance • Building Ecology • Algorithmic planning and analysis • History of Art and Architecture • Ecologic of Material Structures • Urban research • Architectural engineering • Design aspects of construction theory • City development • Integral landscaping • Contemporary architectural theory • Practical projects • … Vienna: Curriculum 066 443 Master programme Architecture | TU Wien Graz: Studienplan - TUGRAZonline - Technische Universität Graz Innsbruck: Microsoft Word - MA Architektur 19_en (uibk.ac.at) Linz: Kunstuniversität Linz: Master Programme (ufg.at)
Background of teachers and trainers	mostly specialized and theoretical training

4.1.3 Bachelor's degree programme Architecture – University of Applied Sciences (Fachhochschule)

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	Fachhochschule Kärnten
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	• Secondary School Leaving Certificate (Austrian 'Matura' or an equivalent international certificate) *or* • Higher education (University) entrance examination certification *or* • Vocational higher education (University) entrance examination *or* • Vocational (VET) diploma examination (vocational apprenticeship or completion of at least a 3-year vocational secondary school) with additional exams
Location (city and country)	Spittal an der Drau (Carinthia)
Working language	German
Acquired (academic) title, qualification, professional level	Bachelor of Science in Engineering
To what entitles this education? a. Access to further education b. Access to occupations	a. The bachelor's program qualifies for a subsequent Masters' degree in Architecture or related field b. career opportunities (examples) • independent office of Architecture and Urban planning • Participation in architectural and planning offices • public administration

	• building and planning departments of enterprises • Project development and Consulting • teaching and research at universities-ties, colleges and technical colleges • Product development in the construction industry • architecture computer science • Architectural Journalism
Curriculum / Content of education (Modules, Elements etc)	Examples: • Design • Structural Mechanics • General Business Administration • Building Material Science • Structural Engineering • Laboratory • Mathematics • Presentation Technique • Building Physics • Economics in Construction • Architecture and Ethics • Studio Light and Sound • Internship • Sustainable Energy • English • Building and Construction Law • Environmental Planning • Contract and Liability Law • …
Background of teachers and trainers	mostly specialized and theoretical training; practical reference

4.1.4 Master's degree programme Architecture – University of Applied Sciences (Fachhochschule)

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	Fachhochschule Kärnten
Country of sustaining organisation	Austria
Duration of educational activity	2 years
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	• completion of a bachelor of arts/science degree that corresponds to the respective master degree program *or* • completion of an equivalent degree program at a recognized Austrian or an international post-secondary institution of higher education
Location (city and country)	Spittal an der Drau (Carinthia)
Working language	German
Acquired (academic) title, qualification, professional level	Diplom-Ingenieur für technisch-wissenschaftliche Berufe
To what entitles this education? a. Access to further education b. Access to occupations	a. Post-gradute programmes, life-long-learning programmes b. career opportunities (examples) • independent office of Architecture and Urban planning • Participation in architectural and planning offices • public administration • building and planning departments of enterprises • Project development and Consulting • teaching and research at universities-ties, colleges and technical colleges • Product development in the construction industry • architecture computer science • Architectural Journalism

Curriculum / Content of education (Modules, Elements etc)	Examples: • Architectural History & Ethics • History of Architecture • Project Management • Structural Design Theory • Facility Management • Building Materials Systems in Architecture • Visualization • Urban and Regional Sociology • Issues of Technology and Sustainability • Master thesis • Theory of Architecture • Urban Planning • Model Making • …
Background of teachers and trainers	mostly specialized and theoretical training; practical reference

4.1.5 Bachelor's degree programme Sports, Culture & Event Management

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	University of Applied Sciences (Fachhochschule) Kufstein
Country of sustaining organisation	Austria
Duration of educational activity	3 years (full-time or part-time)
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	• Secondary School Leaving Certificate (Austrian 'Matura' or an equivalent international certificate) *or* • Higher education (University) entrance examination certification *or* • Vocational higher education (University) entrance examination *or* • Vocational (VET) diploma examination (vocational apprenticeship or completion of at least a 3-year vocational secondary school) with additional exams
Location (city and country)	Kufstein (Tyrol)
Working language	German and English
Acquired (academic) title, qualification, professional level	Bachelor of Arts in Business (BA)
To what entitles this education? a. Access to further education b. Access to occupations	a. The bachelor's program qualifies for a subsequent Masters' degree in Architecture or related field b. career opportunities (examples) • exhibition centres • theatres • publishers • sports/event agencies • sports marketing and communication • media corporations

	• sports consultancy firms • retail business • cultural institutes
Curriculum / Content of education (Modules, Elements etc)	Examples: • internship • semester abroad • Event Management • Cultural Studies and Management • Sports Studies and Management • Event Sciences • Risk Management • Digital Trends in Sports, Culture and Events • International Management in Sports, Culture and Events • Event Law • Introduction BWL and VWL • Marketing • Human Resources Management • Business Studies • Academic Research • Social Skills • … Curriculum - Sport-, Kultur- & Veranstaltungsmanagement VZ (fh-kufstein.ac.at)
Background of teachers and trainers	mostly specialized and theoretical training; practical reference

4.1.6 Master's degree programme Sports, Culture & Event Management

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	University of Applied Sciences (Fachhochschule) Kufstein
Country of sustaining organisation	Austria
Duration of educational activity	2 years
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	• completion of a bachelor of arts/science degree that corresponds to the respective master degree program *or* • completion of an equivalent degree program at a recognized Austrian or an international post-secondary institution of higher education
Location (city and country)	Kufstein (Tyrol)
Working language	English
Acquired (academic) title, qualification, professional level	Master of Arts in Business (MA)
To what entitles this education? a. Access to further education b. Access to occupations	a. Post-gradute programmes, life-long-learning programmes b. career opportunities (examples) • exhibition centres • theatres • publishers • sports/event agencies • sports marketing and communication • media corporations • sports consultancy firms • retail business • cultural institutes
Curriculum / Content of education (Modules, Elements etc)	Examples: • International Financial, Cultural, Event and Sports Management • Risk Management

	• Sustainability • Public Relations • Venue Management • International Sports & Cultural Politics • Critical Perspectives • Master thesis • Business Project • Research Methods • … Curriculum - Sports, Culture & Event Management VZ (fh-kufstein.ac.at)
Background of teachers and trainers	mostly specialized and theoretical training; practical reference

4.1.7 Schimmel im Bauwesen (Universitätslehrgang)

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	☐ public x private
Name of sustaining organisation	Donau Universität Krems
Country of sustaining organisation	Austria
Duration of educational activity	1 year
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Payment of € 2.700
Location (city and country)	Krems (Lower Austria)
Working language	German
Acquired (academic) title, qualification, professional level	Certified Programme
To what entitles this education? a. Access to further education b. Access to occupations	a. b.
Curriculum / Content of education (Modules, Elements etc)	• general basics • sampling + rating • microbiology • building law • building physics • interdisciplinary work
Background of teachers and trainers	mostly specialized and theoretical training; practical reference

4.1.8 Renovation and Revitalization

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	☐ public x private
Name of sustaining organisation	Donau Universität Krems
Country of sustaining organisation	Austria
Duration of educational activity	3 Semester, 4 Semester, 5 Semester
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	3 Semester: Study or work experience according to regulations 4 or 5 Semester: Study or an equivalent qualification according to regulations for all of them: course fees
Location (city and country)	Krems (Lower Austria)
Working language	German
Acquired (academic) title, qualification, professional level	3 Semester: Expert Programme 4 or 5 Semester: Master of Science
To what entitles this education? a. Access to further education b. Access to occupations	a. b. Target groups: Architects, engineers, property developers, urban planners, conservationists, builders, building contractors, facility managers, property owners, business consultants, real estate owners, …
Curriculum / Content of education (Modules, Elements etc)	c. Sustainability d. Building technology e. Monument preservation f. Building law g. Building physics h. Construction economics i. Revitalization concepts j. Real estate industry
Background of teachers and trainers	mostly specialized and theoretical training; practical reference

4.1.9 Cultural Property Protection

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	☐ public x private
Name of sustaining organisation	Donau Universität Krems
Country of sustaining organisation	Austria
Duration of educational activity	Master: 8 modules; Certifies Programme: 3 modules
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Admission to the study program requires an internationally recognized university degree in a field related to the broad topic of cultural property protection, or at least four years of working experience in a similar field. A interview with the program director must be conducted. course fees
Location (city and country)	Krems (Lower Austria)
Working language	English
Acquired (academic) title, qualification, professional level	Certified Programme; Master of Science
To what entitles this education? a. Access to further education b. Access to occupations	a. b. Target groups: • First Response Units • Military Personnel • Private Security Companies • Personnel of Humanitarian Organizations • Personnel of Galleries, Libraries, Archives, Museums • Monument Conservators • Safety and Security Managers • Architects and Town Planners • Insurance Specialists • Art Dealers • Police Forces • Peacekeepers

Curriculum / Content of education (Modules, Elements etc)	• International Humanitarian Law and Crisis Management • Collections and Inventories • Material handling and building stability • Interdisciplinary Project • Cultural Property Protection • Identification of Cultural Property (only Masters' programme) • Cultural Property and Heritage Protection (only Masters' programme) • Emergency planning for cultural property (only masters' programme) • Master's Thesis (only master's programme)
Background of teachers and trainers	mostly specialized and theoretical training; practical reference

4.1.10 Conceptual Architectural Heritage Preservation

Field of education	x post graduate ☐ vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	☐ public x private
Name of sustaining organisation	Donau Universität Krems
Country of sustaining organisation	Austria
Duration of educational activity	5 Semester
Legislative basis	Federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Study or an equivalent qualification according to regulations course fee
Location (city and country)	Krems (Lower Austria)
Working language	German
Acquired (academic) title, qualification, professional level	Master of Science
To what entitles this education? a. Access to further education b. Access to occupations	a. b. Target groups: People with good artisanal skills and a keen interest in design and workmanship in the field of traditional building and decor material; professionals working in conservation, renovation or completing existing structures; people with proven artisan skills in practically applying creative design; building contractors, project sponsors; people experienced in dealing with cultural landscapes; people with a strong penchant for creative-practical work
Curriculum / Content of education (Modules, Elements etc)	• Surface art and texture • Space • Constructive Structure • Plastic shaping • Master's thesis
Background of teachers and trainers	mostly specialized and theoretical training; practical reference

5. VOCATIONAL EDUCATION

5.1 Formal education

5.1.1 HTL Krems – Höhere Abteilung für Bautechnik (Vertiefung Sanierungstechnik)

Field of education	☐ post graduate x vocational training ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	Federal Ministry of Education
Country of sustaining organisation	Austria
Duration of educational activity	5 years
Legislative basis	federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	criteria, are by school defined (e.g. positive conclusion of the previous 8th grade, minimum age 14 years or entrance examination)
Location (city and country)	Krems / Lower Austria
Working language	German
Acquired (academic) title, qualification, professional level	HTL-engineer (after 3 years of occupation) and Acquisition of the permission for the exercise of following handicrafts with praxis: heat, cold, sound and fire twilight; memorial, facade and building cleaners after final examination of IHK builder, construction, fountain, room and master stonemason, including artificial stone producers, technical offices, plasterers and dry fitters
To what entitles this education? a. Access to further education b. Access to occupations	a. Qualification for university, academy and college can be a part of further college education (max. one year) b. Yes, see above
Curriculum / Content of education (Modules, Elements etc)	timetable
Background of teachers and trainers	mostly specialized and theoretical trai-ning, afterwards pedagogical education

5.1.2 Höhere technische Bundeslehr- und Versuchsanstalt Wien 3 - Leberstraße Höhere Lehranstalt für Bautechnik - Hochbau

Field of education	☐ post graduate x vocational training ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	Federal Ministry of Education
Country of sustaining organisation	Austria
Duration of educational activity	5 years
Legislative basis	federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	criteria, are by school defined (decision by SGA after positive conclusion and interview)
Location (city and country)	Wien / Vienna
Working language	German
Acquired (academic) title, qualification, professional level	HTL-engineer (after 3 years of occupation) and Acquisition of the permission for the exercise of following handicrafts Technical draftsman, the masons and carpenters industrial merchant (sometimes) main parts of master builder examination
To what entitles this education? a. Access to further education b. Access to occupations	a. Qualification for university, academy and college can be a part of further college education (max. one year) b. Yes, see above
Curriculum / Content of education (Modules, Elements etc)	timetable
Background of teachers and trainers	mostly specialized and theoretical training, afterwards pedagogical education

5.1.3 Höhere technische Bundeslehr- und Versuchsanstalt Wr. Neustadt - Höhere Lehranstalt für Bautechnik - Hochbau

Field of education	☐ post graduate x vocational training ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	Federal Ministry of Education
Country of sustaining organisation	Austria
Duration of educational activity	5 years
Legislative basis	federal law
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	criteria, are by school defined (decision by SGA after positive conclusion and interview)
Location (city and country)	Wiener Neustadt / Lower Austria
Working language	German
Acquired (academic) title, qualification, professional level	HTL-engineer (after 3 years of occupation) and Acquisition of the permission for the exercise of handicrafts; Elimination of the master craftsman and the entrepreneurial examination
To what entitles this education? a. Access to further education b. Access to occupations	a. Qualification for university, academy and college can be a part of further college education (max. one year) b. Yes, see above
Curriculum / Content of education (Modules, Elements etc)	timetable
Background of teachers and trainers	mostly specialized and theoretical training, afterwards pedagogical education

6. EDUCATION FOR CRAFTSMEN

6.1 Formal education

6.1.1 Apprenticeship: Roofer (Lehre: Dachdecker/Dachdeckerin)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Fachberufsschule Spittal a.d. Drau, Landesberufsschule Langenlois, Berufsschule Freistadt, Berufsschule Linz 8, Landesberufsschule Hallein, Landesberufsschule Graz 4
Working language	German
Acquired (academic) title, qualification, professional level	Roofer / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Carpenter”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Technological expertise 1. Subject: Roofs and facades • Content: Safety and environmental aspects. Ergonomics. Health promotion. Environmental and quality standards. Roofs and facade systems. Fastening and connection techniques. Materials. Tools, devices, machinery, and equipment. Building physics.

	• Specialisation: Roofs and facade systems. Fastening and connection techniques. Building physics. 2. Subject: Flat roofs and waterproofing of buildings • Content: Flat roofs and waterproofing of buildings. Work and auxiliary materials. Tools, devices, machinery, and equipment. Safety devices. • Subject: Flat roofs and waterproofing of buildings. Safety devices. 3. Subject: Project internship • • Content: Project conception. Project planning. Module: Applied mathematics 4. Subject: Roofs and facades • Content: Calculation of length, area and volume. Calculation of angular functions. Calculations regarding roof and facade systems. Calculation of material needed. Weight calculations. • Subject: Calculation of length, area, and volume. Calculation of angular functions. Calculation regarding roof systems. 5. Subject: Flat roofs and waterproofing of buildings • Content: Calculation of material needed. Calculation of slope, volume, and weight. Calculations in the field of building physics. 6. Subject: Project internship • Content: Project-specific calculations. Module: Technical drawing 7. Subject: Roofs and facades • Content: Hand-drawn sketches, detailed plans, roof layouts. 8. Subject: Flat roofs and waterproofing of buildings • Content: Hand-drawn sketches. Plans. Flat roofs and building details. 9. Subject: Project internship • Content: Project-specific work orders. Module: Technical lab 10. Subject: Roofs and facades • Content: Safety. Material testing. Measurement exercises. Building physics. 11. Subject: Waterproofing of flat roofs and buildings • Content: Safety regulations. Measuring and testing. 12. Subject: Project internship • Content: Project-specific work orders.
Background of teachers and trainers	Usually professionals inf that field (additional pedagogical education)

6.1.2 Apprenticeship: Electrician (Lehre: Elektrotechniker/Elektrotechnikerin)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3,5 – 4 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Berufsschule Oberwart, Fachberufsschule St. Veit a.d. Glan, Fachberufsschule Villach 2, Landesberufsschule Amstetten, Landesberufsschule Stockerau, Private Berufsschule für Eisenbahnspezifische Lehrberufe, Berufsschule Gmunden 1, Berufsschule Linz 5, Berufsschule Ried, Landesberufsschule 4 Salzburg, Landesberufsschule Eibiswald, Landesberufsschule Voitsberg, Private Berufsschule Graz, Tiroler Fachberufsschule für Elektrotechnik, Kommunikation und Elektronik, Landesberufsschule Bregenz 2, Landesberufsschule Feldkirch, Berufschule für Elektro-, Veranstaltungs- und Informationstechnik Austria, Berufsschule für Elektrotechnik und Mechatronik
Working language	German
Acquired (academic) title, qualification, professional level	Electrician / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Carpenter”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Electrical engineering and applied mathematics 1. Subject: Provision, distribution, control and use of electrical energy • Content: DC circuits. AC circuits. Three-phase circuits. • Specialisation: DC circuits. AC circuits. 2. Subject: Electrical systems

	• Content: DC technology. AC technology. Three-phase AC technology. • Specialisation: AC technology. Three-phase AC technology. 3. Subject: Project internship • Content: Project-specific calculations. Module: Technology 4. Subject: Provision, distribution, control and use of electrical energy • Content: Provision, distribution, control and use of electrical energy. Protective measures. Safety regulations. Environmental, hygienic, and quality standards. Health promotion. Ergonomics. Module: Special technology 5. Subject: Electrical systems • Content: Protective measures. Safety regulations. Environmental, hygienic, and quality standards. Health promotion. Ergonomics. Electrical equipment. Electrical machines. Control systems. • Specialisation: Protective measures. 6. Subject: Project internship • Content: Project conception. Project planning. Module: Electrical engineering laboratory 7. Subject: Provision, distribution, control and use of electrical energy • Content: Plans. Circuits. Measuring technology. 8. Subject Electrical systems • Content: Safety regulations. Environmental, hygienic, and quality standards. Health promotion. Ergonomics. Measuring technology. Electrical equipment. Installation technology. Electrical machines. Control technology. 9. Subject Project internship • Content: Project implementation. Project documentation. Project presentation. Project evaluation.
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.3 Apprenticeship: Stove Fitter (Lehre: Hafner/Hafnerin)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Landesberufsschule Pinkafeld, Fachberufsschule Völkermarkt, Landesberufsschule Lilienfeld, Berufsschule Linz 2, Landesberufsschule Wals, Karl Brunner-Landesberufsschule Murau, Tiroler Fachberufsschule für Bautechnik und Malerei, Landesberufsschule Dornbirn 1, Berufsschule für Baugewerbe
Working language	German
Acquired (academic) title, qualification, professional level	Stove Fitter / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Carpenter”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Technological expertise 1. Subject: Furnace technology • Content: Occupational safety, ergonomics, and accident prevention. Environmental Protection. Health promotion. Fireplaces and other professional heating systems. Tools, devices, machinery, and equipment. Building and auxiliary materials. Catches. Heating technology. Building physics. Legal requirements, guidelines and standards. Fuels. Customer consultation. • Specialisation: Fireplaces and other professional heating systems. Building and auxiliary materials. Building physics. 2. Subject: Surfaces • Content: Worker and employee protection, ergonomics and environmental protection. Quality standards. Subsurfaces and substrates. Building and auxiliary materials. Tools, devices, machinery, and equipment. Surfaces and coverings. Joints. Seals. Obligation to check and warn.

	• Specialisation: Subsurfaces and substrates. Realisation of surfaces and covering work. 3. Subject: Project internship • Content: Project conception. Project planning. Module: Applied mathematics 4. Subject: Furnace technology • Content: Calculation of dimensions and scales. Calculation of circumference, area, and volume. Calculation of material needed. Dimensions of fireplaces. Calculations related to HVAC and building physics. Calculation of fuel need. • Specialisation: Calculation of area, angle, volume, and quantity. Calculation of material needed. Dimensions of fireplaces. Calculations related to HVAC and building physics. 5. Subject: Surfaces and coverings • Content: Calculation of area, angle, and mass. Calculation of material needed. Blueprints. Material lists. • Subject: Calculation of area, angle, and mass. Calculation of material needed. 6. Subject: Project internship • Content: Project-specific calculations. Module: Technological exercises 7. Subject: Furnace construction technology • Content: Sketches. Technical drawings. Blueprints. Execution and detailed plans. How fireplaces work. Material testing. Heating and combustion technology. Building physics. Emission measurements. Electrical current. 8. Module: Surfaces covering work • Content: Sketches. Technical drawings. Blueprints. Execution and detailed plans. Material testing. Moisture seals. Measuring and testing devices. Substrates. Cleaning and maintenance of coverings. 99a. Subject Project internship • Content: Project-specific work orders.
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.4 Apprenticeship: Building services engineer (Lehre: Installations- und GebäudetechnikerIn)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3 – 4 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Berufsschule Mattersburg, Fachberufsschule Spittal a.d. Drau, Landesberufsschule Mistelbach, Landesberufsschule Zistersdorf, Berufsschule Linz 8, Landesberufsschule Hallein, Landesberufsschule Graz 4, Private Berufsschule Graz, Tiroler Fachberufsschule für Installations- und Blechtechnik, Landesberufsschule Bregenz 2, Berufsschule für Sanitär-, Heizungs- und Klimatechnik
Working language	German
Acquired (academic) title, qualification, professional level	Building services engineer / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Bricklayer”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Applied installation technology 1. Subject: Piping systems and funding institutions • Content: Safety regulations. Health promotion. Mechanics. Heat studies. Fluid dynamics. Pipe systems. Funding agencies. • Specialisation: Heat studies. Fluid dynamics. Pipe systems. Funding agencies. 2. Subject: Plant construction in installation and building technology/HVAC

	• Content: HVAC-related media, components and systems. Electrotechnical devices and components. • Specialisation: HVAC-related media, components and systems. 3. Subject: Project internship • Content: Project conception. Project planning. Specialisation: Installation exercises 4. Subject: Piping systems and funding institutions • Content: Mechanics. Heat studies. Fluid dynamics. Funding agencies. Pipe systems. 5. Subject: plant construction in the installation and building technology/HVAC • Content: HVAC-related media, components, and systems. Electrotechnical devices and components. 6. Subject: Project internship • Content: Project-specific work orders.
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.5 Apprenticeship: Bricklayer (Lehre: MaurerIn)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Landesberufsschule Pinkafeld, Fachberufsschule Völkermarkt, Landesberufsschule Langenlois, Berufsschule Freistadt, Landesberufsschule Wals, Karl Brunner-Landesberufsschule Murau, Private Berufsschule Graz, Tiroler Fachberufsschule für Bautechnik und Malerei, Tiroler Fachberufsschule Lienz, Landesberufsschule Dornbirn 1, Berufsschule für Baugewerbe
Working language	German
Acquired (academic) title, qualification, professional level	Bricklayer / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Bricklayer”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Construction technology 1. Subject: The Construction industry and the construction site • Content: Building professions. Construction methods. Architectural styles. Approaches to renovation and refurbishment. Monument preservation and heritage conservation. Construction processes. Building regulations. Standards. Planning. Buildings. Construction site equipment. Scaffolding. Tools. Machinery. Tools, devices, and equipment. Worker and employee protection. Health promotion. Safety. Building accessory building materials. • Specialisation: Standards. Approaches to renovation and refurbishment. Building accessory building materials. 2. Subject: Buildings – building shells • Content: Surveying. Earthworks. Securing and stabilising earthworks. Foundations, concrete technology. Structural components. Reinforced concrete. Formwork. Masonry.

	Catches. Stairs. Moisture proofing. Sewage and surface water disposal. Drains and Sewers. Roofs. • Specialisation: Concrete technology. Structural components. Reinforced concrete. Masonry. Stairs. 3. Subject: Buildings - expansion and outdoor facilities • Content: Non-load-bearing wall systems. Plasters. Thermal insulation composite systems. Floor constructions. Building physics outdoor facilities. • Content: Building physics. 4. Subject: project internship • Content: Project conception. Project planning. Module: Applied mathematics 5. Subject: The construction industry and the construction site • Content: Calculation of material needed. 6. Subject: Buildings – building shells • Content: Calculation of weight and quantity surveying. Calculation of material needed. Loads and tensions. Incline and descent. Stair calculations. • Specialisation: Loads and tensions. Incline and descent. Stair calculations. 7. Subject: Buildings - expansion and outdoor facilities • Content: Material requirements. Calculations in the field of building physics ... • Specialisation: Calculations in the field of building physics. 8. Subject: Project internship • Content: Project-specific calculations. Module: Architectural drawing 9. Subject: The construction industry and the construction site • Content: Hand-drawn sketches and as-built drawings. Blueprints. 10. Subject: Buildings – building shells • Content: Blueprints. Sketches. Material and parts lists. 11. Subject: Buildings - expansion and outdoor facilities • Content: Blueprints. Sketches. 12. Subject: Project internship • Content: Project-specific implementation sketches. Module: Construction engineering lab 13. Subject: The construction industry and the construction site • Content: Measuring and testing devices. Testing methods. 14. Subject: Building – building shells • Content: Building material testing. 15. Subject: Buildings – expansion and outdoor facilities • Content: Building material testing. 16. Subject: Project internship
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.6 Apprenticeship: Blacksmith (Lehre: Metalltechniker/Metalltechnikerin)

Field of education	☐ post graduate X vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3,5 – 4 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Landesberufsschule Pinkafeld, Fachberufsschule Villach 2, Landesberufsschule Mistelbach, Berufsschule Wels 1, Landesberufsschule Hallein, Landesberufsschule Mureck, Tiroler Fachberufsschule für Metalltechnik, Tiroler Fachberufsschule Lienz
Working language	German
Acquired (academic) title, qualification, professional level	Blacksmith / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Blacksmith”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Mechanical Technology 1. Subject: Planning and production • Content: Safety and ergonomics. Environmental, hygienic, and quality standards. Health promotion. Work and auxiliary materials. Machine elements. Heat and surface treatment. Corrosion and corrosion protection. Cutting and non-cutting manufacturing. Joining and separating technology. Tools, devices, machinery, and equipment. • Specialisation: Work and auxiliary materials. Machine elements. Cutting and non-cutting manufacturing. Joining and separating technology. 1. Subject: Automation

	• -Content: Electrical engineering. Automation technology. • Specialisation: Automation technology. 2. Subject: Project internship • Content: Project conception. Project planning. Module: Applied mathematics 3. Subject: Planning and production • Content: Mathematical theory. Drive technology. Manufacturing engineering. Mechanics. • Specialisation: Manufacturing technology. Mechanics. 4. Subject: Automation • Content: Electrical engineering. Automation technology. • Specialisation: Electrical engineering. Automation technology. 5. Subject: Project internship • Content: Project-specific calculations. Module: Computer-aided technical drawing 6. Subject: Planning and production • Content: Technical drawings. 7. Subject: Automation • Content: Technical drawings 8. Subject: Project internship • Content: Project-specific work orders • Specialisation: Practice lab 9. Subject: Planning and production • Content: Safety and ergonomics. Health promotion. Measuring and testing. Materials testing. Mechanics. 10. Subject: Automation • Content: Measuring and testing. Automation technology. 11. Subject: Project internship • Content: Project-specific work orders. Various main modules: mechanical engineering, vehicle construction, metal construction and sheet metal technology, steel construction technology, forging technology, tool construction technology, welding technology, machining technology, design technology, construction technology, process and manufacturing technology
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.7 Apprenticeship: Stonemason (Lehre: Steinmetz/Steinmetzin)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Landesberufsschule Schrems, Landesberufsschule Wals
Working language	German
Acquired (academic) title, qualification, professional level	Stonemason / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Stonemason”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Construction technology 1. Subject: Treatment and processing of natural, artificial, and concrete stones • Content: Relevant safety regulations. Accident prevention. Health promotion. Environmental Protection. Tools, devices, machinery, and equipment. Work and auxiliary materials. Rock studies. Extraction and promotion of gemstones. Natural, artificial, and concrete stones. Surface treatments. Project-specific work orders. • Specialisation: Work and auxiliary materials. 2. Subject: Relocation and assembly techniques • Content: Relevant safety regulations. Accident prevention. Health promotion. Environmental Protection. Tools, devices, machinery and equipment. Work and auxiliary materials. Processing techniques. Scaffolding. Facades. Masonry.

	Floors. Stairs. Vault. Special constructions. Project-specific work orders. • Specialisation: Facades. Masonry. Floors. Stairs. Vaults. Special constructions. 3. Subject: Monuments & tombs and their maintenance • Specialisation: Relevant safety regulations. Accident prevention. Health promotion. Environmental Protection. Tools, devices, machinery, and equipment. Work and auxiliary materials. Fonts, ornaments, and symbols. Monuments. Grave monuments. Joints and connections. Foundations. Renovation. Restoration. Preservation of monuments. Cleaning. Environmental influences. Architectural styles. Project-specific work orders. • Specialisation: Tombs. Restoration. Monument preservation and heritage protection. Architectural styles. Module: Applied mathematics 4. Subject: Machining and processing of natural, artificial, and concrete stones • Content: Calculation of length, area, volume and mass. Calculation of material needed. Time estimates. Gradients. Pitch. Calculation of scales and dimensions. Project-specific calculations. • Specialisation: Calculation of length, area, volume, and mass. 5. Subject: Transfer and assembly techniques • Content: Calculation of material needed. Time estimates. Gradient. Pitch. Stair calculations. Project-specific calculations. • Specialisation: Stair calculations. 6. Subject: Monuments, tombs and their maintenance • Content: Calculation of material needed. Time estimates. Calculations as to dimensions and ratio. Project-specific calculations. • Specialisation: Calculation of material needed. Time estimates. Module: Technical drawing 7. Subject: Machining and processing of natural, artificial, and concrete stones • Content: Nature shots. Sketches. Work drawings. Lists of dimensions, scales, and measurements. Project-specific work orders. 8. Subject: Transfer and assembly techniques • Specialisation: Mature shots. Sketches. Work drawings. Laying plans. Lists of dimensions, scales, and measurements. Project-specific work orders. 9. Subject: ornaments, tombs and their maintenance • •Content: Nature shots. Sketches. Work drawings. Stencils. Studies. Fonts, symbols, and ornaments. Project-specific work orders. Module: Material technology Lab 10. Subject: Machining and processing of natural, artificial, and concrete stones • Content: Job labelling. First aid. Safe handling of chemicals. Safety regulations. Measuring and testing devices. Rock

	investigations. Impregnation and cleaning. Gluing. Additions. Project-specific work orders. 11. Subject: Transfer and assembly techniques • Content: Job labelling. First aid. Safe handling of chemicals. Safety regulations. Measuring and testing devices. Investigations of natural, artificial, and concrete stones. Project-specific work orders. 12. Subject: Monuments & tombs and their maintenance • Content Job labelling. First aid. Safe handling of chemicals. Safety regulations. Measuring and testing devices. Investigations of natural, artificial, and concrete stones. Mineral and organic binders. Cleaning. Damage analysis. Conservation measures. Project-specific work orders.
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.8 Apprenticeship: Dry Liner/Plasterer (Lehre: StuckateurIn und TrockenausbauerIn)

This apprenticeship covers the professional fields “Dry Liner” as well as “plasterer”.)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* (Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016])
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Landesberufsschule Lilienfeld, Landesberufsschule Wals, Karl Brunner-Landesberufsschule Murau, Landesberufsschule Graz 4, Landesberufsschule Dornbirn 1, Berufsschule für Baugewerbe
Working language	German
Acquired (academic) title, qualification, professional level	
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Dry Liner”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Technological expertise 1. Subject: Dry-lining and plaster-based systems • Content: Ergonomics, Occupational safety and accident prevention. Health promotion. Tools, machinery, devices, and equipment. Work, construction, and auxiliary materials. Storage. Disposal. Substrates and subsurfaces. Building physics. Scaffolding. Standards. Working methods and techniques. Obligations to check and warn. 2. Subject: Applying stucco, plasters, thermal insulation, and scaffolding work • Content: Ergonomics, occupational safety and accident prevention. Health promotion. Work, construction, and auxiliary material. Storage. Disposal. Substrates and subsurfaces. Building physics. Tools, machinery, devices, and equipment. Scaffolding. Standards. Working methods and techniques. Obligations to check and warn. 3. Subject: Project internship

	• Content: Project conception. Project planning. Module: Applied mathematics 4. Subject: Dry-lining and plaster-based systems • Content: Calculation of material needed. Mass calculations. Calculations in the field of building physics. • Content: Calculation of material needed. Calculations in the field of building physics. 5. Subject: Applying stucco, plasters and thermal insulation, and scaffolding work • Content: Calculation of material needed. Mass calculations. Calculations in the field of building physics. • Content: Calculation of material needed. Calculations in the field of building physics. 6. Subject: Project internship • Content: Project-specific calculations. Module: Technical drawing 7. Subject: Dry-lining and plaster-based systems • Content: Construction drawings. Free-hand sketches. 8. Subject: Applying stucco, plasters and thermal insulation, and scaffolding work • Content: Construction drawings. Free-hand sketches. Style elements. 9. Subject: Project internship • Content: Project-specific work orders Module: Lab exercises 10. Subject: Dry-lining and plaster-based systems • Content: Measuring and testing devices. Testing of work, construction, and auxiliary materials. Exercises regarding building physics. 11. Subject: Applying stucco, plasters and thermal insulation, and scaffolding • Content: Measuring and testing devices. Testing of work, construction, and auxiliary materials. Building physics exercises. 12. Subject: Project internship • Content: Project-specific work orders
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.9 Apprenticeship: Upholsterer and Paperhanger (Lehre: Tapezierer/Tapeziererin)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* (Ordinance of the Federal Minister of Education on the curricula for vocational schools) [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Fachberufsschule Villach 1, Landesberufsschule Lilienfeld, Berufsschule Ried, Landesberufsschule Kuchl, Landesberufsschule Fürstenfeld, Tiroler Fachberufsschule für Garten, Raum und Mode, Berufsschule für Chemie, Grafik und gestaltende Berufe
Working language	German
Acquired (academic) title, qualification, professional level	Upholsterer and Paperhanger / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Upholsterer and Paperhanger”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Technological expertise 1. Subject: Light, sight and sun protection systems • Content: Safety regulations. Health promotion. Ergonomics. Environmental Protection. Tools, devices, machinery and equipment. Work and auxiliary materials. Light, sight and sun protection systems. Calculation of material needed. Working practices, methods, and techniques. Assembly techniques. Maintenance and repair. • Specialisation: Tools, devices, machinery, and equipment. Light, sight and sun protection systems. Working practices, methods and techniques. 2. Subject: Interior design • Content: Safety regulations. Health promotion. Ergonomics. Environmental Protection. Tools, devices, machinery, and equipment. Design studies. Colours. Substrates. Work and auxiliary materials. Curtains. Working methods and

	techniques. Wall and ceiling coating materials. Flooring. Care and cleaning. • Specialisation: Tools, devices, machinery, and equipment. Design studies. Colours. Communication skills. Working practices, methods and techniques. 3. Subject: Seats and reclining systems • Content: Safety regulations. Health promotion. Ergonomics. Environmental Protection. Tools, devices, machinery, and equipment. Upholstered furniture. Calculation of material needed. Care and cleaning. Repair. • Specialisation: Tools, devices, machinery, and equipment. Working practices, methods and techniques. 4. Subject: Project internship • Content: Project conception. Project planning. Module: Technical drawing 5. Subject: Light, sight and sun protection systems • Content: Hand-drawn sketches. Work drawings. Partial and assembly drawings. 6. Subject: Interior design • Content: Drafts. Sketches. Concepts regarding colour, shape and material. 7. Subject: Seats and reclining systems • Content: Technical drawing. Colours and shapes. Drafts and drawings. 8. Subject Project internship • Content: Project drawings.
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.10 Apprenticeship: Joiner (Lehre: Tischler/Tischlerin)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* (Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Landes-BS Pinkafeld, Fach-BS Klagenfurt 1, Fach-BS Villach 1, Landes-BS Pöchlarn, BS Kremsmünster, Landes-BS Kuchl, Landes-BS Fürstenfeld, Private BS Graz, Tiroler Fach-BS für Holztechnik Absam, Tiroler Fach-BS Lienz, Landes-BS Dornbirn 1, BS für Holz, Klang, Farbe, Lack
Working language	German
Acquired (academic) title, qualification, professional level	Joiner / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Carpenter”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Technological expertise 1. Subject: Furniture and interior design • Content: Joineries. Preparation, workflows and production processes. Quality management. Occupational safety. Health, environmental and fire protection. First aid. Ergonomics. Health promotion. Construction and auxiliary materials. Fittings, assembly, and fastening and fixings. Types and techniques in joinery construction. Standards and building codes. Furniture style studies. Building physics. Working practices, methods and techniques. Tools, devices, machinery,and equipment.

	• Specialisation: Construction and auxiliary materials. Building physics. Tools, devices, machinery and equipment. 2. Subject: Joinery • Content: Construction and auxiliary materials. Product information and technical documents. Wood preservation. Types and techniques in joinery construction. Standards and building codes. Tools, devices, machinery and equipment. Building physics. Working practices, methods and techniques. • Specialisation: Construction and auxiliary materials. Building physics. 3. Subject: Project internship • Content: Project conception. Project planning. Module: Applied mathematics 4. Subject: Furniture and interior design • Content: --Calculation of material needed. Time estimates. Calculations in the field of wood engineering. Calculations of scales and dimensions. Calculations in the area of mechanical engineering. • Specialisation: Calculation of material needed. Time estimates. Calculations in the field of wood engineering. 5. Subject: Joinery • Content: Calculation of material needed. Stair calculations. Calculations in the area of building physics. 6. Subject: Project internship • Content: Project-specific calculations. Module: Computer-aided technical drawing 7. Subject: Furniture and interior design • Content: Construction and design. Working and construction drawings. Standardised sketches and technical drawings. Scales and measurements. Industrial software. Interior design. 8. Subject: Joinery • Content: Construction and design. Working and construction drawings. Standardised sketches and technical drawings. Joinery connections and woodworking joints. Surveying. 9. Subject: Project internship • Content: project-specific work orders. Module: Computer-aided technology 10. Subject: Furniture and interior design • Content: Technical documentation. Occupational safety. Health, environmental and fire protection. Ergonomics. Health promotion. CNC technology. Quality assurance. 11. Subject: Joinery • Specialisation: CNC programming. 12. Subject: Project internship • Content: Project-specific work orders.
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.11 Apprenticeship: Carpenter (Lehre: Zimmerer/ Zimmerin)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	The respective regional public administration (e.g. Province of Carinthia)
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	*Verordnung der Bundesministerin für Bildung über die Lehrpläne für Berufsschulen* (Ordinance of the Federal Minister of Education on the curricula for vocational schools [as of 2016]
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	Dual (vocational training) system: Apprenticeship training can be started after 9 years of compulsory schooling, between 15 and 19 years of age, whereby the dual vocational training takes place at two different sites in parallel: the company and a vocational school for apprentices (duty to attend vocational school).
Location (city and country)	Landesberufsschule (Landes-BS) Pinkafeld, Fach-BS Spittal a.d. Drau, Landes-BS Pöchlarn, BS Linz 2, Landes-BS Wals, Karl-Brunner-Landes-BS Murau, Tiroler Fach-BS für Holztechnik Absam, Landes-BS Dornbirn 1
Working language	German
Acquired (academic) title, qualification, professional level	Carpenter / EQF4
To what entitles this education? a. Access to further education b. Access to occupations	Admission to the occupation of “Carpenter”; Access to tertiary education only in cases of (additional) completion of A-levels or tertiary education entrance exam (e.g. ”*Studienberechtigungsprüfung*” granting restricted access or “*Berufsreifeprüfung*” (also in the form of “Apprenticeship + Matura”) granting full access to tertiary education
Curriculum / Content of education (Modules, Elements etc)	Module: Technology 1. Subject: Workplace and preparatory work • Content: Construction and timber industry. Construction operations. Construction planning. Safety regulations. Health promotion. Scaffolding. Environmental Protection. Construction site facilities. • Specialisation: Construction and timber industry. Construction operations. Construction planning. 2. Subject: Planning and production of timber constructions/wooden support structures • Content: Timber and wood-based materials. Wood preservation. Tools. Machinery. Wood joints. Fasteners. Roof shapes. Dormers. Roof recesses. Roof extensions. Trusses.

	Framing. Working practices, methods and techniques. Wall and ceiling structures. Cantilever and self-supporting wooden structures. Wooden structures for outdoors. Stairs. Bridges. Building physics. Maintenance and repair works. • Specialisation: Timber and wood-based materials. Roof extensions. Trusses. Wall and ceiling structures. Cantilever and self-supported wooden structures. 3. Subject: Layers of built components • Content: Building and auxiliary materials. Sheet materials. Fasteners. Roofs. Ceilings. Walls. Building physics. Built-in parts. • Specialisation: Building physics. Built-in parts. 4. Subject: Project internship • Content: Project concept. Project planning. Module: Applied mathematics 5. Subject: Workplace and preparatory work • Content: Calculation of area, volume, and weight. • Calculations in the field of building physics. 6. Subject: Planning and production of timber constructions/ wooden support structures • Content: Calculation of shrinkage. Calculation of material needed. Calculation of length, height, area, volume, and slope. Stair-building calculations. Calculations in the field of building physics. • Specialisation: Calculations in the field of building physics. 7. Subject: Layers of built components • Content: Calculation of area, volume and material needed. • Specialisation: Calculations in the field of building physics. 8. Subject: Project internship • Content: Project-specific calculations. Module: Construction exercises 9. Subject: Planning and production of timber constructions/wooden support structures • Content: Construction drawings. 10. Subject: Layers of built components • Content: Construction drawings. 11. Subject: Project internship • Content: Project-specific work orders.
Background of teachers and trainers	Usually professionals in that field (additional pedagogical education)

6.1.12 University Studies: Facilities Manager

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	FH Kufstein Tirol, University of Applied Sciences
Country of sustaining organisation	Austria
Duration of educational activity	3 years
Legislative basis	*Fachhochschul-Studiengesetz – FHStG* (Federal Act on the Organisation of Universities of Applied Sciences (*Fachhochschulen*))
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	• general higher education entrance qualification (e.g. *Matura*) • Respective Certificate of General Educational Development • Vocational Matriculation Examination (Graduation of every subject until 31.10.) • School leaving certificate of (at least) a three-year vocational high school or certificate of a dual education system (specified apprenticeship) including additional exams within the first semester in the subjects mathematics, German and English. Information on the additional exams are here. • A German qualification to study at universities of applied sciences (*deutsche Fachhochschulreife*) relevant to the degree program including additional exams within the first semester in the subjects mathematics, German and English.
Location (city and country)	Kufstein, Tyrol
Working language	German (at least 20% of courses in English)
Acquired (academic) title, qualification, professional level	Bachelor, NQR 6
To what entitles this education? a. Access to further education b. Access to occupations	Access to respective Master's degree programmes Occupational fields: Property and real estate administration, property trusteeship, banks and insurance companies, industry, energy & environment, facility management and consulting services, planning, property and real estate monitoring and management, project management and development
Curriculum / Content of education (Modules, Elements etc)	1. Economics • Property and Real Estate Fundamentals • Fundamentals of Business Administration & Economics (E) • Real Estate Finance and Investment (E) • Legal Aspects of Facility Management & Real Estate • Business Administration (compiled) • Macroeconomics (compiled) • Real Estate and Property Valuation • Real Estate and Property Management 2. Technology • Fundamentals of Facility Management • Structural Engineering I

	• Structural Engineering II • Technical Building Equipment I • Real Estate and Property Development • Facility Services • Technical Building Equipment II 3. Social Skills • Foreign Language I • Foreign Language II • Social Skills and Competences (compilation) & Presentation • Foreign Language III 4. Applied Knowledge • Principles of Scientific & Empirical Research Methods • Selected Scientific & Empirical Methods • Practice-Based Project I • Practice-Based Project II • International Facility Management & Real Estate Development - Project & International Week (E) • Bachelor‘s Thesis • Vocational Internship (E) = Courses in English
Background of teachers and trainers	Professors at universities of applied sciences do not need to have any additional academic/scientific background. However, they must be experienced in academic writing and the application of academic/scientific knowledge and methods in their field. Besides professors there are external lecturers who work in the practical field and teach up to six hours per week.

6.1.13 Diploma Studies: Conservator (Diplomstudium: RestauratorIn/ ErhalterIn)

Field of education	☐ post graduate x vocational training courses ☐ adult training courses
Sustaining organisation	
Type of sustaining organisation	x public ☐ private
Name of sustaining organisation	Vienna Academy of Fine Arts and the University of Applied Arts Vienna
Country of sustaining organisation	Austria
Duration of educational activity	5 years
Legislative basis	*Universitätsgesetz 2002 – UG* (Federal Universities Act 2002)
Preconditions (Recognition of educational credentials and prior learning, Admission rules and restrictions, Admission procedure)	• Admission exam (Academy of Fine Arts) As well as one of the following… • general higher education entrance qualification (e.g. *Matura*) • Respective Certificate of General Educational Development • Vocational Matriculation Examination (Graduation of every subject until 31.10.) • School leaving certificate of (at least) a three-year vocational high school or certificate of a dual education system (specified apprenticeship) including additional exams within the first semester in the subjects mathematics, German and English. Information on the additional exams are here. • University entrance exam granting restricted access ("*Studienberechtigungsprüfung*")
Location (city and country)	Vienna
Working language	German
Acquired (academic) title, qualification, professional level	Mag.art. (Magister artium) According to the European Qualification Framework (EQF) this five-year programme corresponds to Level 7 (Master's Degree)
To what entitles this education? a. Access to further education b. Access to occupations	Graduates work in museums – particularly in the field of preventive conservation – as well as in (architectural) heritage conservation. They are equal in rank with related disciplines; interdisciplinary exchange is intended.
Curriculum / Content of education (Modules, Elements etc)	Diploma Study Programme at the University of Applied Arts Vienna: First stage: 1. Main Artistic Subject – Conservation-Restoration Practice I-II 2. Conservation Studies – Restoration • Introduction to Conservation Practice I-II • Traditional (Historic) Technologies – Painting Techniques • Nude Drawing / Nature Studies • Photographic Documentation in Restoration 3. Natural Sciences • Fundamentals of Chemistry • Introduction to Material Science

	• Lab, Health & Safety 4. Humanities • Art History (Cycle) I-II • Proseminar on Art History Second stage: 5. Main Artistic Subject – Conservation-Restoration Practice 6. Diploma Thesis 7. Conservation Studies – Restoration • Preventive Conservation • Seminar on Conservation Technology • Traditional (Historic) Technologies • Theory and Practice of Heritage Conservation • Exhibition and Collection Management • Scientific Methods in Conservation Studies • Nude Drawing / Nature Studies • Documentation in Restoration 8. Natural Sciences • Binders and Adhesives in Restoration • Instrumental Examination Methods in Restoration • Material Science • Solvents Used in Restoration • Internship Featuring Examination and Investigation • Colour Chemistry • Fundamentals of Pigment and Binder Examination • Theory of Colours 9. Humanities • Art and Cultural History • Art History (Cycle) III-VI • Iconography and Stylistics • Practice in Front of Originals 10. Free Electives
Background of teachers and trainers	"University professor" is a job title. It is awarded to persons who are appointed to a chair by a university. Usually, they must have obtained a PhD or doctoral degree in their field.

7. CONCLUSION

7.1 Summary of achievements

7.2 Other conclusions and lessons learnt

7.3 Contact to the Coordinator's Data Protect Officer

DPO Roland Lehner, Cert. MHA, Cert, THA
Head of Construction Management II
Hofburg-Schweizerhof
A-1010 Vienna
Phone: +43 (1) 53649-814631
Mail: datenschutz@burghauptmannschaft.at