PaintingSkillsAcademy Project ID 612288-EPP-1-2019-1-DE-EPPKA2-SSA



Work package	WP4 – Learning outcome-based,	profession-wide, modular cur	ricula for EQF				
Result	R4.5 Creation of the modular curricu	Ilum for EQF Level 5					
Date of delivery	Contractual (project application)	Actual (work plan)	31/01/2021				
Type of deliverable	Modular curriculum for EQF						
Dissemination level	PU – Public			х			
	PP - Restricted to other E+ Programme participant	s (including EACEA, Commission services a	nd project reviewers)				
	CO - Confidential, only for members of the consort	CO - Confidential, only for members of the consortium (including EACEA, Commission services and project reviewers)					
Responsible partner	HTL						
Author	Markus Hagspiel						
Contributors							
Quality Reviewer							
Summary	Modular curriculum for EQF						
Project Coordinator	SBG						





Document History







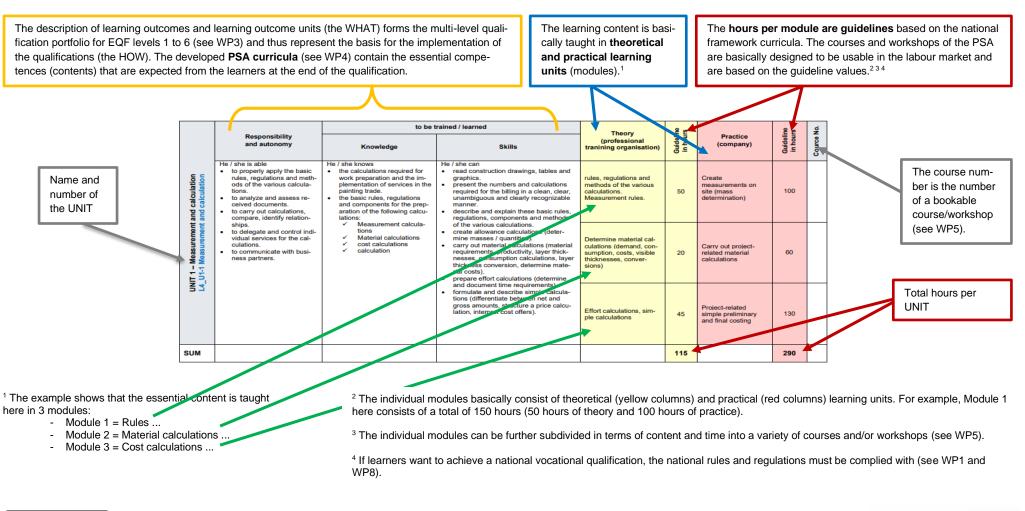


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Introduction

PSA curricula are curricula (teaching programs) based, on the one hand, on learning goal orientation and, on the other hand, on teaching by instruction.





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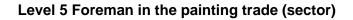
Level 5 Overview total hours (Example: Germany ⁵)

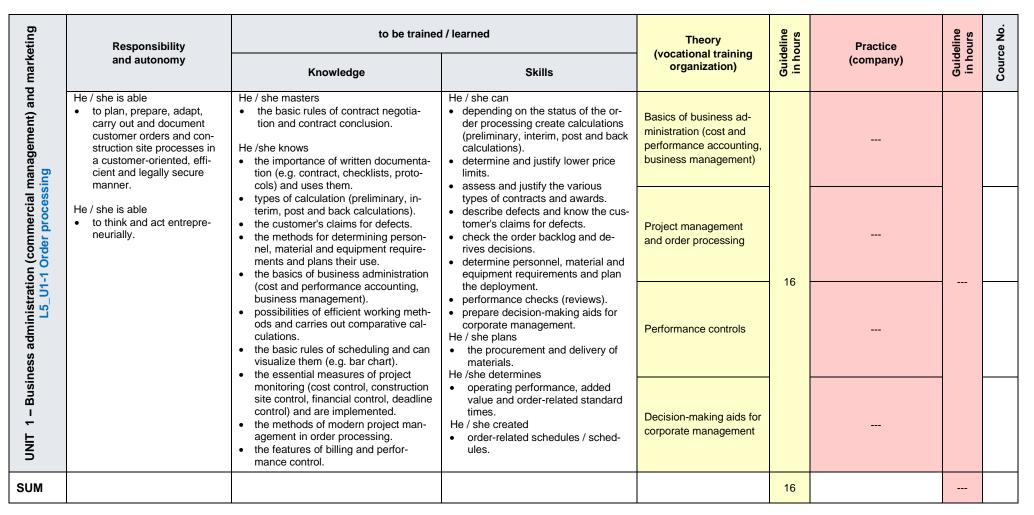
N۲	Responsibility	to be train	ed / learned		Guideline	_	Guideline	0. EC
5 E	and autonomy	Knowledge	Skills	Theory	in hours	Practice	in hours	Courc e No.
	UNIT 1 – Business Administration a	nd Marketing	·					56
	L5_U1-1 Order processing				24			
L5_U1	L5_U1-2 Contract law				8			
	L5_U1-3 Marketing				8			
	L5_U1-4 Handling information and com	nmunication technologies (ICT)			16			
	UNIT 2 – Business organization						72	
F	L5_U2-1 Measurement (Mass determir		20					
_5_U2	L5_U2-2 Construction law, quality assu		16					
_5_02	L5_U2-3 Correspondence		12					
	L5_U2-4 Logistics		12					
	L5_U2-5 Health, safety and environme	nt			12			
_5_U3	UNIT 3 – Vocational and work educa	2-5 Health, safety and environment						20
_5_03	L5_U3-1 Vocational and work educatio	n			20			
	UNIT 4 – Technology							60
L5_U4	L5_U4-1 Building protection				20			
L <u>5_</u> 04	L5_U4-2 Materials				20			
	L5_U4-3 Machine technology				20			
	UNIT 5 – Design (rooms, buildings)							16
L5_U5	L5_U5-1 Form and color theory				12			
	L5_U5-2 Architectural styles				4			
SUM					224			224

⁵ Here, **using Germany as an example, the hours per module are shown**, which are based on the German framework curriculum. This file is supplemented by an overview of all hours per partner country (see Excel file "PSA_WP4_dt+en_FINAL overview hours_Level 5_01.12.2022), since the scheduled hours may differ within Europe. In the exel file you can find the maximum and minimum hours for each partner country. The courses and workshops of the PSA are based on the guideline values and can deviate, depending on the learning objective.











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b		to be trained	I / learned	Theory	ne rs		ne rs	ø
narketir	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
UNIT 1 – Business administration (commercial management) and marketing L5_U1-1 Order processing		 He /she knows the tools to plan, prepare, adapt, carry out and document customer orders and construction site processes in a customer-oriented, efficient and legally secure manner. the basics of pricing and can carry out various calculations (e.g. hourly rate, offer price, contribution margin calculation, profit threshold calculation). 	 He / she created the billing is legally compliant, monitors the payments and checks the success. He / she can adapt and apply the methods of modern project management in order processing to the painting business. He / she grasps all necessary actions for initiating, planning, controlling and complet- ing projects in the painting com- pany and uses suitable digital tools. 	Document customer or- ders and construction site processes	8			
SUM					8			
SUM					24			







g		to be trained	d / learned	Theory	ne rs		ne rs	e)
narketin	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
Business administration (commercial management) and marketing L5_U1-2 Contract law	 He / she is able to apply national law. implement the current EU data protection rules, including up-to-date information. 	 He / she knows the legal consequences of the unauthorized exercise of a craft / commercial activity and of illegal work. the current EU data protection regulations and implements them in the company. the main types of contracts, in particular the law on work contracts. 	 He / she can understand and explain the legal basis for the exercise of a craft/commercial activity and against undeclared work. assess the stricter data protection regulations (which serve to improve control of personal data and ensure a level playing field) and derive suitable measures for implementation. apply the main types of contracts, in particular the law on contracts for work and services. 	Legislation, contract law	6			
UNIT 1 – Business administrat L5_				EU data protection regu- lations	2			
M					8			







D		to be traine	d / learned	Theory	ne rs		ne rs	e
and marketing	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
UNIT 1 – Business administration (commercial management) and m L5_U1-3 Marketing	 He / she is able to develop and evaluate a communication concept and to justify suitable measures to promote sales. He /she is able to have a technical discussion with the customer and take new developments into account. He /she is able to implement the spatial, temporal and targeted structuring of work processes. 	 He / she knows the importance of marketing for the company. the principles of advertising design and can show them. the meaning and components of corporate identity. the importance of modern communication using suitable media. the basics of a sales pitch (preparation and implementation). the importance of customer orientation, customer satisfaction, customer fascination and customer loyalty. the importance of corporate strategy and corporate philosophy. 	 He / she can explain the importance of customer orientation. identify and apply measures for customer acquisition and customer care. design and use presentation documents. create customer-friendly offers. present the benefits of services in the painting trade in a customer-oriented manner (basic and additional benefits). conduct an expert discussion, that means to show technical connections on which the project is based, explain the process and present job-related technical problems and their solutions. implement corporate identity and corporate design. 	Marketing and communi- cation	8			
SUM					8			







_		to be trained	d / learned	Theory	ine rs		ine rs	e
arketing (ICT)	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
mercial management) and m pmmunication technologies (se area 1-5	 He /she is able to use digital information and its mobile availability (data flow, data exchange and data usage) and to include it in production and business processes. He /she is able to check current developments and to include them in pro- duction and business pro- cesses. 	 He /she knows the importance of digitization for a future-oriented craft company. possibilities of digitization in organizational and communicative tasks (manage tasks and react in real time. Automatic communication between systems instead of constant availability of important employees). the functioning of new possibilities such as exoskeleton suits. 	 He /she can use smartphones, tablets, etc. according to the situation. use systems such e.g. exoskeleton suits. He /she uses modern information and communication technologies for obtaining information and processing orders. 	Digital information and communication technol- ogy, digital production and business processes	6			
UNIT 1 – Business administration (commercial management) and marketing L5_U1-4 Handling information and communication technologies (ICT) → Competence area 1-5	 He /she is able to assess the relevance of the source and its content. store, manage and organize digital data, information and content. guide others 	 He /she knows the content of the competence area 1: 1.1 Browsing, searching and filtering data, information and digital content 1.2 Evaluating data, information and digital content 1.3 Managing data, information and digital content 	 He /she can articulate information needs, find and retrieve digital data, infor- mation and content (<i>Competence</i> <i>area</i> 1 "Information and data liter- acy"). 	<i>Competence area 1</i> "Information and data lit- eracy"	2			
SUM					8			





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bu		to be trained	d / learned	Theory	ine rs		ine rs	e
marketi s (ICT)	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
n (commercial management) an and communication technolog 1petence area 1-5	 He /she is able to participate in society through public and private digital ser- vices and participatory citi- zenship. manage your digital pres- ence, identity and reputation. lead others. 	 He /she knows the content of the competence area 2: 2.1 Interacting through digital technologies 2.2 Sharing through digital technologies 2.3 Engaging in citizenship through digital technologies 2.4 Collaborating through digital technologies 2.5 Netiquette 2.6 Managing digital identity 	 He /she can apply interaction, communication and collaboration through digital technologies, taking into account cultural and generational diversity (<i>Competence area 2</i> "Communi- cation and collaboration"). 	<i>Competence area 2</i> "Communication and collaboration"	2			
	 She/he is able to improve and integrate information and content into an existing body of knowledge. understand and apply copyrights and licenses. give understandable instructions for a computer system. lead others. 	 He /she knows the content of the competence area 3: 3.1 Developing digital content 3.2 Integrating and re-elaborating digital content 3.3 Copyright and licences 3.4 Programming 	He /she can • Creation and editing of Digital Content (<i>Competence area 3</i> "Digital content creation")	<i>Competence area 3</i> "Digital content creation"	2			
SUM					4			





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g		to be trained	d / learned	Theory	ine rs		ine rs	e
narketin (ICT)	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
Business administration (commercial management) and marketing -4 Handling information and communication technologies (ICT) → Competence area 1-5	 She/he is able to protect physical and mental health and raising awareness of digital technologies, social well-being and social inclusion. be aware of the environmental impact of digital technologies and their use. lead others. She/he is able to use of digital tools to inno- 	 He /she knows the content of the competence area 4: 4.1 Protecting devices 4.2 Protecting personal data and privacy 4.3 Protecting health and well-being 4.4 Protecting the environment 	 He /she can act to protect devices, content, personal data and privacy in digital environments (<i>Competence area 4</i> "Safety"). He /she can <i>Competence area 5</i>, Problem solving":Recognize needs and 	<i>Competence area 4</i> "Safety"	2			
UNIT 1 – Business administratior L5_U1-4 Handling information → Com	 vate processes and products. keep up with digital evolution. lead others. 	 5.1 Solving technical problems 5.2 Identifying needs and technological responses 5.3 Creatively using digital technologies 5.4 Identifying digital competence gaps 	problems and solve conceptual problems and problem situations in digital environments.	<i>Competence area 5</i> "Problem solving"	2			
SUM					4			
SUM					16			





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		to be trained	d / learned	Theory	ine rs		ine rs	a
tion)	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
Business organization ement (Mass determination)	 He / she is responsible for the professional creation of a measurement, for the legally and factually correct billing of orders. He / she analyzes and assesses received documents. He / she leads calculations, evaluates, 	 He / she knows that solving math tasks are part of the daily work in the painting trade in order to be able to invoice the work performed. He / she knows the necessary calculations, can de- scribe, explain and apply / transfer them. 	 She / he is able to read construction drawings, tables and graphics. to write the numbers and calculations required for the billing in a clean, clear, unambiguous and clearly recognizable manner. to carry out measurement calculations – in compliance with the rules, regulations - and prepare a cost planning and / or billing by 	Rules, guidelines and components for the cre- ation of measurement calculations (measure- ment, mass determina- tion, measurement rules)	4			
UNIT 2 – Bus L5_U2-1 Measurem	 compares and summarizes the results - in compliance with rules and methods. He / she delegates and controls this work, com- municates with business part- ners. 	 He / she knows the rules, guidelines and components for the creation of measurement calculations (measurement, mass determination, measurement rules). 	determining the masses.	Measurement calcula- tions	16			
SUM					20			





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e		to be traine	ed / learned	Theory	ine rs		Guideline in hours	e
human resource	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideli in hou	Cource No.
ss organization assurance and human	 He /she is able to process orders / construction sites in compliance with the laws as well as the technical rules and guidelines. He /she is able to organize the internal guality as- 	 He /she knows the essential national laws, in particular the provisions of the law on contracts for work and services (contract law of traders). the importance of the national technical rules and regulations of the painting trade. 	 He /she can apply the essential national laws on a contract-by-order basis. explain national technical rules and guidelines of the painting trade. establish quality levels and de- termine them for the execution of 	National laws / provi- sions of the law on con- tracts for work	2			
Busines quality	 surance process and to ensure a defined quality level. She/he is able to use staff efficiently. 	 the painting trade. the sub-functions of quality assurance and can explain them. the basics of human resources (personnel planning, personnel selection, personnel management, performance appraisal). 	 apply the processes of the customer order and argue the legal basis of the customer order. implement human resources tools (e.g. construction schedule, work preparation, process planning, network planning technol- 	Quality assurance	4			
UNIT 2 – L5_U2-2 Construction law,			ogy).	Basics of human re- sources (personnel plan- ning, personnel selec- tion, personnel manage- ment, performance ap- praisal)	10			
SUM					16			







		to be traine	ed / learned	Theory	ne rs		Guideline in hours	e																
anization dence	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	(vocational training	(vocational training	(vocational training			(vocational training	(vocational training	(vocational training	(vocational training			. –		· · ·		(vocational training	Guideline in hours	Practice (company)	Guideli in hou	Cource No.
UNIT 2 – Business organiza L5_U2-3 Correspondence	 He /she is able to document the process flows of construction sites and agreements. 	 He /she knows the importance of documentation. the most important construction site forms such as e.g. construction diary, management report, construction site log, acceptance report, notification of concern, notification of disability, verification of material and personnel. 	 He /she can use the most important construction site forms according to the situation. 	Construction site forms, documentation	12																			
SUM					12																			







		to be traine	ed / learned	Theory	ne		rs	e
nization	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
UNIT 2 – Business organi L5_U2-4 Logistics	 He /she is able to implement the spatial, temporal and targeted structuring of work processes. 	 He /she knows the principles of the division of tasks. and understands the tasks of logistics. the organizational and technical measures to create and maintain the quality standard. 	 He /she can analyze and split work and business processes (process analysis and design). implement suitable logistics measures (plan values, target/actual comparisons). plan and implement the construction site facilities (e.g. use of materials and personnel, principles of organization and furnishing, workplace ordinances, technical rules). 	Process analysis and design, logistics	12			
SUM					12			





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		to be trained / learned		Theory	ne rs		ne rs	e
	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
usiness organization , safety and environment	 She / he is able to organize all necessary measures for health protection and occupa- tional safety and to implement them in particular in the painting business and to apply the laws, regulations, ordinances and guidelines. 	 He /she knows the employer's duties and the employee's duty to cooperate. the institution (s) of the accident insurance. safety signs (warning, prohibition, mandatory, rescue, fire protection signs), nationally and within the EU, and can evaluate them. the measures to prevent accidents, especially with regard to the 5 hazard groups. the importance of safety data sheets, technical rules for hazardous substances and operations in the measures in the measures. 	 prepare risk assessments (check and evaluate industry- specific hazardous and stressful situations as well as working conditions). apply the essential legal provi- sions (e.g. employment re- strictions, preventive medical ex- 	Health protection measures				
UNIT 2 – Business L5_U2-5 Health, safety	 ardous substances ar ing instructions and u the company. the bas sales pitch (preparation). the meaning and com the risk assessment. the health and safety that are important in t place. the most important rist dents, occupational d and work-related illne 	 the company. the basics of a sales pitch (preparation and implementation). the meaning and components of the risk assessment. the health and safety measures that are important in the work- 	 aminations, workplace guide- lines, Checking work equip- ment). carry out safety tasks in the workplace and establish health and safety measures. inform about the introduction of new technologies, work equip- ment. create operating instructions and work instructions - taking into ac- count the currently valid legal regulations. inform about the dangers of ac- cidents, occupational diseases and work-related diseases. give instructions for safe work. carry out instructions. 	Occupational safety measures	8			







ganization environment	_	to be trained / learned		Theory	ne rs		ine rs	e e
	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
UNIT 2 – Business organiza L5_U2-5 Health, safety, envirol	 He /she is able to to apply all necessary measures for environmental protection - taking into account the laws, reg- ulations, ordinances and guide- lines that must be observed in the painting business. 	 He /she knows and masters the essential legal provisions (environmental laws such as the VOC directive and recycling and waste laws such as the waste regulations), na- tionally and within the EU. 	 He /she can assess and explain the causes of environmental hazards caused by painting work (inter- nal and external). select the materials and auxiliary materials required in the painting trade appropriately and profes- sionally, according to ecological and sustainable criteria. 	Environmental protec- tion measures	4			
SUM					4			
SUM					12			





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education education		to be trained / learned		Theory	ne rs		ne rs	e
	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
UNIT 3 – Vocational and work educ L5_U3-1 Vocational and work educ	 He / she is able to present the instruments of staff management. 	 He / she knows the effects of leadership behavior on employees and the working atmosphere. measures and methods to motivate employees. measures and methods for conflict resolution and strategies to prevent bullying. the principles of leadership. the importance of learning and working in a team. educational measures for dealing with adolescents and young adults. the training content and training methods (e.g. 4-step method). 	 He / she can reflect on your own leadership behavior. present and explain the different styles and means of leadership and know the principles of lead- ership. conduct feedback discussions with employees. justify the importance of the working atmosphere. communicate training content. lead employeesdevelop and de- sign company learning and work tasks (from the company training plan and the typical work and business processes). 	Leadership and motiva- tion, basics of training	20			
SUM					20			





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	to be trained / learned		ed / learned	Theory	ne rs		ine	
	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
UNIT 4 – Technology L5_U4-1 Building protection	 He / she is able to apply special knowledge and skills in the design of objects (e.g. rooms, facades). to create damage diagnoses. 	 He / she knows scientific contexts, can explain and evaluate them. building physical conditions on buildings in the interior and exte- rior. the job-specific work processes, can present and compare them 	 He / she is can explain aggregate states, differentiate between adhesion and cohesion as well as heterogeneous and homogeneous mixtures as well as describe the origin / production of alkalis, acids and neutralization. 	Physics / chemistry in building and painting	2			
	and use them in a situation-ap- propriate manner.	 strates. use extensive methods and procedures for measuring, testing, calculating and assessing as well as for preparing the substrates (technology and materials / auxiliary materials - workshop laboratory). physics calculations (e.g. thermal conductivity, water vapor permeability). assess the building physics re- 	Name and recognize substrates deficiencies, creation of damage diag- noses	6				
			Methods and procedures for measuring, testing, calculating, of sub- strates	12				
SUM					20			







		to be trained / learned		a Theory .⊆			ne rs	e
	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
	 He / she is able to select the materials and auxiliary materials required in the painting trade appropriately and professionally according to ecological and sustainable criteria. understand the specific properties and characteristics of materi- 	 the composition of coating materials (binders, pigments, solvents / thinners, additives) the terms solid, high-solid paint, volatile content (VOC) 	 He / she is able to use the following materials and auxil- iary materials properly: Binders (mineral binders, dis- persions, oils, resinous bin- ders) Solvents (hydrocarbons, alco- hols, esters, ketones) 	Binder	4			
4 – Technology U4-2 Materials	 als and auxiliary materials and to evaluate them in the context of substrate-specific problem solu- tions. create suitable documentation. evaluate the health regulations. 	 the basics for the production of a coating material / varnish. the division of the coating ma- terials into binder groups. the tasks and properties of the binding agents and their use. 	 material / varnish. Cover materials (cover films, paper, cover fileece, adhesive tapes) and properties of the gents and their use. and properties of the groups of solvents use. ers and necessary e measures when solvents. ction between pig-e and filler. ification of the pigneir tasks and proper-ell as the basics of 	Solvent	4			
UNIT 4 - ' L5_U4-2		 the tasks and properties of the solvents, groups of solvents and their use. the dangers and necessary protective measures when handling solvents. the distinction between pigment, dye and filler. the classification of the pigments, their tasks and properties as well as the basics of production. 		Pigments, dyes and fill- ers	4			
				Covering materials	4			
	 the most important additives in dispersions and paints. the drying processes. the coating systems and leveling compounds. 		Coating systems. fillers.	4				
SUM					20			





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		to be trained / learned		Theory	ne rs		ne rs	e
	Responsibility and autonomy	Knowledge	Skills	(vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
UNIT 4 – Technology L5_U4-3 Machine technology	 He /she is able to select and use the devices, machines and systems required in the painting trade properly and professionally. 	 He / she knows and understands the accident prevention regulations for devices, machines and systems. the use of the devices, machines and systems. He / she can follow the instructions for use of the devices, read, understand and explain machines and systems. He / she knows the handling, care, maintenance and storage of devices, machines and systems. the advantages and disadvantages of the individual devices, machines and systems. He / she knows which devices, machines and systems. He / she knows which devices, machines and systems. 	 He / she is can to select e.g. the following devices, machines and systems and use them properly: ✓ Suction devices (e.g. vac- uum cleaners) ✓ Pressure washer ✓ Grinding machines ✓ Burning devices and mill- ing machines ✓ For applying paint: spray- ing machines, immersion, flooding systems ✓ For cleaning (e.g. high- pressure cleaner) 	Devices, machines and systems	20			
SUM					20			





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buildings) color theory			to be trained / learned		ne rs		ne rs	e
	Responsibility and autonomy	Knowledge	Skills	Theory (vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
(rooms, buil ape and colo	 He / she is able to apply special knowledge and skills in the design of objects (e.g. rooms, façade 	 apply special knowledge and skills in the design of objects (e.g. rooms, façade implement color schemes and use safety and identification col- ors properly and professionally. the principles of color, shape and color design. the basics of font, signet and logo type design and can use them. knows the effect of colors and can implement the basic princi- 	 ject design (in analogue and digital form) and takes into account developments in product innovations and market conditions such as trends. use the basics of font, signet and logo type design. 	Basics of font and logo design	4			
- Design Form/sh	 Implement color schemes and use safety and identification col- ors properly and professionally. Indentification col- them. Indentification col- them. 			Color, form theory, color design	6			
UNIT 5 L5_U5-1		 create color samples and carry out color determinations. create simple room and facade sketches. use standardized colors (e.g. safety colors). 	Color theory	2				
SUM					12			





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		to be traine	to be trained / learned		ne rs		ne rs	e,
s)	Responsibility and autonomy	Knowledge	Skills	Theory (vocational training organization)	Guideline in hours	Practice (company)	Guideline in hours	Cource No.
- Design (rooms, buildings) U5-2 Architectural styles	 He / she is able to apply special knowledge and skills in the design of objects (e.g. rooms, facades. 	 He / she knows the characteristics of the essential style and art epochs (style and art history). significant buildings, fonts, colors, ornaments, etc. for each style epoch. 	 He / she can design, draw, construct, transfer and execute decorations, orna- ments, forms/shapes and fonts according to the architectural styles, as well as templates (also computer-aided). use the knowledge in the design of objects. 	Architectural style Art history	2			
UNIT 5 - D L5_U5-			 He /she sets the design of the property to a high quality, taking into account the design wishes of the customer, the future use, the demands on the use, the architecture, the spatial conditions, the nature of the subsoil and the technical possibilities. 	Decorative design	2			
SUM					4			







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