



# Learning Outcomes for the qualification "master craftsperson in electrical engineering"

# Austria

Silvia Weiß (ibw) in cooperation with technical experts supported by Gabriele Grün (ibw) and Sabine Tritscher-Archan (ibw)

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# within the framework of the project "ZOOM" (<u>www.zoom-eqf.eu</u>)





### UNIT 1: Electrical installations

He/she is able to plan, organise, inst commission electrical systems, parti installations for the purpose of crafts industry as well as for private and me purposes, data and information netw lighting, emergency lighting and cont engineering.

	KNOWLEDGE	SKILLS	COMPETENCE
s engineeri	ng		
nstall and rticularly fts, trade, medical tworks, ontrol	<ul> <li>He/she has knowledge in the following fields:</li> <li>Legal provisions, such as the Act on Electrical Engineering (Elektrotechnikgesetz)</li> <li>Normative provisions on systems and installations, such as the provisions of the Austrian Association for Electrical Engineering (ÖVE)</li> <li>Specialist costing, such as the preparation of quotes, tenders and invoicing</li> <li>Equipping an electrical system according to the latest technology and available materials</li> </ul>	<ul> <li>He/she is able to</li> <li>apply legislation related to electrical engineering and normative provisions on installations to the installation of electrical systems.</li> <li>draw up specialist costing for clients and suppliers</li> <li>apply the latest normative and legal provisions as well as the state-of-the-art electronic technologies.</li> </ul>	He/she is independently responsible for the planning, organisation, installation and commissioning of systems. He/she bears ultimate responsibility for a team and/or staff headed by him/her.



## UNIT 2: Energy supply networks

He/she has knowledge about and is a apply it to and identify types of low, n and high voltage networks.

He/she has knowledge about and is apply it to and identify low, medium a voltage switching stations.

is able to , medium	<ul> <li>He/she has knowledge in the following field:</li> <li>Types and construction of low, medium and high voltage networks</li> </ul>	<ul> <li>He/she is able to</li> <li>take into account the types and constructions of low voltage, medium voltage and high voltage networks in the installation of electrical systems.</li> </ul>	He/she is independently responsible for the identification and application of systems. He/she bears ultimate responsibility for a team and/or staff headed by him/her.
is able to n and high	<ul> <li>He/she has knowledge in the following field:</li> <li>Types and construction of low, medium and high voltage switching stations</li> </ul>	<ul> <li>He/she is able to</li> <li>install, operate and run switching stations.</li> </ul>	He/she is independently responsible for the identification and application of installations and systems. He/she bears ultimate responsibility for a team and/or staff headed by him/her.



# UNIT 3: System and installation safety including inspections of systems and installations

He/she is able to implement the required of installation provisions, particularly protection and safety measures.

He/she is able to organise the safe of an installation or system including safety.

He/she is able to inspect and docum requirements of installation provision electrical systems and installations.

quirements	<ul> <li>He/she has knowledge in the following fields:</li> <li>Legal provisions, such as the Act on Electrical Engineering (Elektrotechnikgesetz)</li> <li>Normative provisions on installations and systems, such as the provisions of the Austrian Association for Electrical Engineering (ÖVE)</li> </ul>	<ul> <li>Apply the requirements of legal provisions and normative provisions on installations and systems.</li> </ul>	He/she is independently responsible for the implementation of installation provisions as well as safety and protection measures. He/she bears ultimate responsibility for a team and/or staff headed by him/her.
e operation ng work	<ul> <li>He/she has knowledge in the following field:</li> <li>Legal, normative and operational requirements for the safe operation of electrical installations, systems and consumables</li> </ul>	<ul> <li>Apply legal, normative and operational requirements to guarantee the safe operation of an installation or system.</li> </ul>	He/she is independently responsible for safe operations and work safety. He/she bears ultimate responsibility for a team and/or staff headed by him/her.
iment the ons of 5.	<ul> <li>He/she has knowledge in the following fields:</li> <li>Type and application of relevant measurement and testing equipment</li> <li>Type and content of required documentation</li> </ul>	<ul> <li>He/she is able to</li> <li>identify and assess measured variables.</li> <li>properly handle relevant measurement and testing equipment.</li> <li>document the results of execution and inspections.</li> </ul>	He/she is independently responsible for inspection and documentation. He/she bears ultimate responsibility for a team and/or staff headed by him/her.



#### He/she is able to take measures dep on the results of the system inspecti

He/she is able to systematically ider locate and eliminate faults, defects failures of electrical systems and ins

# UNIT 4: Measurement and control technology

He/she is able to plan, install, comm and inspect components used in ana and digital technologies.

epending tion.	<ul> <li>He/she has knowledge in the following field:</li> <li>Types and severity (e.g. considerable or serious defect) of defects and resulting potential hazards</li> </ul>	<ul> <li>He/she is able to</li> <li>identify the severity of the defect and the resulting safety hazard.</li> <li>take appropriate measures to eliminate defects.</li> </ul>	He/she is independently responsible for the inspection of systems and installations as well as taking relevant measures. He/she bears ultimate responsibility for a team and/or staff headed by him/her.
entify, and nstallations.	<ul> <li>He/she has knowledge in the following fields:</li> <li>The functioning of electrical systems, installations and their equipment</li> <li>Methods for the systematic search for faults, defects and failures</li> </ul>	<ul> <li>He/she is able to</li> <li>identify, locate and eliminate faults, defects and failures.</li> <li>properly handle relevant measurement and testing equipment.</li> </ul>	He/she is independently responsible for the elimination of faults, defects and failures. He/she bears ultimate responsibility for a team and/or staff headed by him/her.

mission nalogue	<ul> <li>He/she has knowledge in the following field:</li> <li>Functioning of components used in analogue and digital technologies</li> </ul>	<ul> <li>Apply the latest normative and legal provisions as well as state- of-the-art electronic technologies.</li> </ul>	He/she is independently responsible for the commissioning of components used in analogue and digital technologies. He/she bears ultimate responsibility for a team and/or staff headed by him/her.



He/she is able to systematically ider locate and eliminate faults, defects failures of components used in anal digital technologies.

He/she is able to maintain and servi components used in analogue and technologies.

## UNIT 5: Technical building inst

He/she is able to plan, organise and implement measures required for the of systems and installations as well equipotential bonding, particularly fo and installations of IT technology.

entify, and alogue and	<ul> <li>He/she has knowledge in the following fields:</li> <li>Functioning of components used in analogue and digital technologies</li> <li>Methods for the systematic search for faults, defects and failures</li> </ul>	<ul> <li>He/she is able to</li> <li>identify, locate and eliminate faults, defects and failures.</li> <li>properly handle relevant measurement and testing equipment.</li> </ul>	He/she is independently responsible for the elimination of faults, defects and failures. He/she bears ultimate responsibility for a team and/or staff headed by him/her.
vice I digital stallations	<ul> <li>He/she has knowledge in the following field:</li> <li>Maintenance measures for components used in analogue and digital technologies</li> </ul>	<ul> <li>He/she is able to</li> <li>implement maintenance and servicing measures.</li> </ul>	He/she is independently responsible for maintenance and service. He/she bears ultimate responsibility for a team and/or staff headed by him/her.
nd the earthing II as for systems	<ul> <li>He/she has knowledge in the following fields:</li> <li>Normative provisions on installations and systems, such as the provisions of the Austrian Association for Electrical Engineering (ÖVE)</li> <li>Implementation of required measures for the state-of-the-art earthing of systems and installations and equipotential bonding in line with available materials</li> </ul>	<ul> <li>He/she is able to</li> <li>apply the latest normative and legal provisions as well as state- of-the-art electronic technologies.</li> </ul>	He/she is independently responsible for planning, organisation and execution. He/she bears ultimate responsibility for a team and/or staff headed by him/her.



He/she is able to take into account t measures required for energy distribition installations technology, lighting and illumination technology, building auto alarm systems and antenna technol

# He/she is able to plan, organise and lightning protection systems including measures for overvoltage protection

t the ribution, nd utomation, ology.	<ul> <li>He/she has knowledge in the following fields:</li> <li>Normative provisions on installations and systems, such as the provisions of the Austrian Association for Electrical Engineering (ÖVE)</li> <li>Execution of measures required for energy distribution, installations technology, lighting and illumination technology, building automation, alarm systems and antenna technology in line with the state of the art and available materials.</li> </ul>	<ul> <li>Apply the latest normative and legal provisions as well as state- of-the-art electronic technologies.</li> </ul>	He/she is independently responsible for systems and installations. He/she bears ultimate responsibility for a team and/or staff headed by him/her.
nd install ing on.	<ul> <li>He/she has knowledge in the following fields:</li> <li>Normative installation provisions, e.g. ÖVE</li> <li>Execution of measures required for lightning protection systems in line with the state of the art and available material.</li> </ul>	<ul> <li>Apply the latest normative and legal provisions as well as state- of-the-art lightning protection systems.</li> </ul>	He/she is independently responsible for the planning, organisation, installation and erection of systems. He/she bears ultimate responsibility for a team and/or staff headed by him/her.



### UNIT 6: Alarm and fire alarm systems

He/she is able to plan, organise, inst commission intruder alarm, fire alarn and access control systems.

He/she is able to inspect and docum intruder alarm, fire alarm, video and control systems.

nstall and arm, video	<ul> <li>He/she has knowledge in the following fields:</li> <li>Normative provisions on installations and systems, such as the provisions of the Austrian Association for Electrical Engineering (ÖVE)</li> </ul>	<ul> <li>He/she is able to</li> <li>apply the latest normative and legal provisions as well as state- of-the-art technologies for intruder alarm, fire alarm, video and access control systems.</li> </ul>	He/she is independently responsible for the planning, organisation, installation and commissioning.
	<ul> <li>Execution of measures required for intruder alarm, fire alarm, video and access control systems in line with the state of the art and available material.</li> </ul>		He/she bears ultimate responsibility for a team and/or staff headed by him/her.
iment id access	<ul> <li>He/she has knowledge in the following fields:</li> <li>Type and application of relevant measurement and testing equipment</li> <li>Type and content of required documentation</li> </ul>	<ul> <li>He/she is able to</li> <li>identify and assess measured variables.</li> <li>properly apply relevant measurement and testing equipment.</li> <li>document the results of execution and inspections.</li> </ul>	He/she is independently responsible for inspection and documentation. He/she bears ultimate responsibility for a team and/or staff headed by him/her.



He/she is able to systematically iden locate and eliminate faults, defects a failures of intruder alarm, fire alarm, access control systems.

# UNIT 7: Accounting and controlling

He/she is able to independently carr internal accounting in compliance wi relevant regulations and laws.

entify, and n, video and	<ul> <li>He/she has knowledge in the following fields:</li> <li>Functioning of intruder alarm, fire alarm, video and access control systems</li> <li>Methods for the systematic search for faults, defects and failures</li> </ul>	<ul> <li>He/she is able to</li> <li>identify, locate and eliminate faults, defects and failures.</li> <li>properly apply relevant measurement and testing equipment.</li> </ul>

rry out with	<ul> <li>fields:</li> <li>Fundamentals of accounting, (document management, postings, charts of accounts, financial accounting)</li> <li>Various posting and accounting systems (double entry bookkeeping, revenue and expense statements)</li> <li>Various ledgers (general ledger, stock recording, wage- salary accounting)</li> <li>The legal bases of inventory-taking</li> <li>The legal foundations regarding the storage of documents</li> <li>Legal provisions on company taxes, mainly turnover tax</li> </ul>	<ul> <li>assign documents to accounts.</li> <li>apply the systems of single and double entry bookkeeping, also by using special computer programmes.</li> <li>post current business cases, taking account of statutory taxes - input tax and sales tax.</li> <li>take inventories.</li> </ul>



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	He/she is independently responsible for the elimination of faults, defects and failures. He/she bears ultimate responsibility for a team and/or staff headed by him/her.
t	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
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He/she is able to independently ider interpret key business data and corp control measures, taking into accoun regulations and laws, and draw cond for business operations.

# UNIT 8: Budgeting, costing and financing

He/she is able to calculate the prices costs of products and services and e their profitability.

<ul> <li>He/she has knowledge of the following fields:</li> <li>Calculation of key business data, such as cash-flow, contribution margin, annual net profit, gross proceeds, equity ratio and debt ratio, etc.</li> <li>Tax legislation</li> <li>Unified commercial code (Unternehmensgesetzbuch)</li> <li>P reparation of a financial plan, such as profit and loss statements, basic knowledge of balance sheets, revenue and expense statements, etc.</li> <li>S pecialist vocabulary</li> </ul>	<ul> <li>calculate and interpret key business data.</li> <li>prepare and interpret a financial plan and draw conclusions for business operations</li> </ul>	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
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<ul> <li>He/she has knowledge of the following fields:</li> <li>Commercial arithmetic, such as percentage calculations, particularly calculating net and gross prices</li> <li>Types of calculations: Reference calculation, surcharge calculation, turnover calculation and difference calculation</li> <li>Specialist terminology of cost accounting and company accounting,</li> </ul>	tly and on responsibility ate ty if he/she his work to a





al profit	<ul> <li>such as discount, cash discount, original cost, production material, production wage, target price, list price, etc.</li> <li>Material cost calculation</li> <li>Payroll accounting</li> <li>He/she has knowledge of the following</li> </ul>	with the result. He/she is able to
a pronc	<ul> <li>Legal regulations concerning the profit and loss account (P&amp;L account) in the Commercial Code (Handelsgesetz- buch) and Unified commercial code (Unternehmensgesetzbuch)</li> <li>Presentation format of the P&amp;L account, such as account-based or step-down report</li> <li>Methods of the P&amp;L account, such as period accounting or cost-of-sales accounting</li> <li>Single items to structure the P&amp;L account, its determination and significance, such as the operating result, gross profit or loss, gross operating results, annual net profit, loss for the year, depreciation</li> <li>Posting of the P&amp;L account</li> <li>Measures resulting from the P&amp;L account</li> </ul>	<ul> <li>represent the P &amp;L account in a certain format.</li> <li>apply a method to determine the P &amp;L account.</li> <li>calculate the individual items to determine the P &amp;L or take them from the company's accounting and prepare the P &amp;L account for a given period.</li> <li>post the balance of the P &amp;L account for a count on the equity capital account.</li> <li>make decisions about the increase or decrease of equity capital on the basis of the P &amp;L account.</li> </ul>





n	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.

He/she is able to select types of fina corporate requirements, such as equiparts and debt finations are such as equiparts and debt finations are such as equiparts are such as equipar leasing, factoring as well as types of financing and subsidisation.



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He/she is able to determine the com liquidity and investment requirement context he/she takes into account the of internal accounting, cost accounting differences in results.

<ul> <li>hpany's its. In this he results ing and</li> <li>Calculation of financing and light ratios, such as equity ratio, light etc.</li> <li>Evaluation of ratios and key its</li> <li>Measures to increase liquidity</li> <li>Presentation and justification investments</li> <li>Investment appraisal</li> <li>Types of investment control, station investments</li> </ul>
individual or summary control



owing	He/she is able to	
iquidity quidity,	-	calculate the liquidity for the company. evaluate and interpret liquidity ratios.
ndicators y	-	take measures to increase the company's liquidity.
of	-	plan, present and justify investments in accordance with economic criteria.
such as I	-	conduct investment appraisals, opt for an investment alternative and implement it.
	-	conduct investment control.

# UNIT 9: Entrepreneurship

He/she is able to evaluate and impro company's organisational structures processes.

He/she is able to plan and set corpo targets.

erove the es and	<ul> <li>He/she has knowledge of the following fields:</li> <li>Common legal forms of companies</li> <li>Corporate organisation, e.g. staff units</li> <li>Evaluation methods, measures to improve processes and workflows, rationalisation instruments</li> </ul>	<ul> <li>He/she is able to</li> <li>specify a division and apportionment of tasks and responsibilities in the company.</li> <li>plan, conduct and control procurement and warehousing.</li> <li>organise the company's payment system and dunning processes.</li> <li>evaluate the company's process organisation.</li> <li>conduct measures to improve processes and workflows, apply rationalisation instrument.</li> </ul>
orate	<ul> <li>He/she has knowledge of the following fields:</li> <li>Preparation of a business plan</li> <li>Interaction of targets, strategies and measures</li> </ul>	<ul> <li>He/she is able to</li> <li>prepare a business plan for his/her company.</li> <li>define corporate targets, plan measures to achieve them and apply methods to control the attainment of targets.</li> </ul>



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y	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
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He/she is able to apply the aspects of as well as provisions of company, co and industry, competition and taxation legislation that are relevant for small and SMEs.

He/she is able to establish cooperat between companies

He/she is able to apply instruments organisation and time management.

s of civil law commerce tion all crafts	<ul> <li>He/she has knowledge of the following fields:</li> <li>Corporate units that are or might be affected by legal regulations (from taxation legislation to e-commerce law)</li> <li>Sector-specific legal regulations, such as rules on professional ethics or professional conduct</li> </ul>	<ul> <li>He/she is able to</li> <li>check compliance with the laws affecting the company or delegate this check.</li> </ul>
ation	<ul> <li>He/she has knowledge of the following fields:</li> <li>Common cooperation models</li> <li>Negotiation know-how.</li> <li>Identification of suitable cooperation partners</li> <li>Pools of external consultants, external service providers, such as tax consultants, lawyer</li> </ul>	<ul> <li>He/she is able to</li> <li>identify from what point in time i is necessary to draw on professional help for cooperation projects.</li> <li>commission the necessary experts for negotiating on a cooperation agreement.</li> </ul>
s of self- nt.	<ul> <li>He/she has knowledge of the following fields:</li> <li>Methods of self-organisation and time management</li> </ul>	<ul> <li>He/she is able to</li> <li>apply methods of self- organisation and time management.</li> <li>set priorities.</li> <li>delegate tasks.</li> </ul>



5	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
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# He/she is able to apply and adapt ins of quality assurance and manageme

# UNIT 10: Staff leadership and human resource management

He/she is able to plan independ responsibly the company's staff req and take steps towards personnel s selection in compliance with regulations and laws.

instruments nent.	<ul> <li>He/she has knowledge of the following fields:</li> <li>Quality assurance methods</li> <li>Recognised certification institutions (ISO)</li> <li>External consultants, such as quality managers</li> </ul>	<ul> <li>He/she is able to</li> <li>plan and implement quality assurance processes.</li> <li>call in external consultants in quality assurance processes.</li> </ul>

ndently and equirements search and n relevant	<ul> <li>He/she has knowledge of the following fields:</li> <li>Methods to identify staff requirements</li> <li>Personnel cost accounting</li> <li>Education and training system, competences and skills, qualifications</li> <li>Valid provisions and laws, e.g. labour law, collective agreements, Equal Treatment Act (Gleichbehandlungs-gesetz), etc.</li> <li>Possibilities of personnel search methods, e.g. online, newspaper advertisements, head hunters, the Public Employment Service Austria (AMS), HR consultants. etc.</li> <li>Drawing up a job ad</li> <li>Communication techniques for job interviews</li> </ul>	<ul> <li>He/she is able to</li> <li>identify the staff requirements of basis of entrepreneurial conditions in qualitative terms, i.e. define competence profiles, formal training programmes, etc.</li> <li>identify the staff requirements of the basis of entrepreneurial conditions in quantitative terms, i.e. determine the number of required employees.</li> <li>formulate a job description.</li> <li>select recruitment method(s),</li> <li>formulate a job ad.</li> <li>draw up a shortlist on the basis of written letters of application.</li> <li>hold job interviews to select the suitable candidate.</li> </ul>



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c. on	delegates this work to a team he/she heads.
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He/she is able to enter into employm contracts according to applicable reg and laws, take all required steps in o still valid employment relationships, a properly terminate the employment relationship.

nent gulations	He, fiel	/she has knowledge of the follo ds:
case of and		Valid provisions and laws, e.g law, collective agreements, th governing employment of fore workers (Ausländerbeschäftigungsges Vocational Training Act (Berufsausbildungsgesetz), p of social security legislation, e
	-	Types of contracts, e.g. emplo contract, contracts on works a services, quasi-freelancers
	-	Provisions on wage and salar earners
	-	Provisions on holiday, sick lea overtime and extra hours, bus trips
	-	Working time arrangements
	-	Remuneration: wage, salary
	-	Provisions on different types of methods to terminate employ relationships
	-	Formulation of a reference let
	-	R etirement provisions
	-	Severance pay regulations
	-	Possibilities of outsourcing HF accounting activities



owing	He/she is able to
g. labour ne Act eign	<ul> <li>register the employee in time with the social security institutio (the national health insurance fund Gebietskrankenkasse).</li> </ul>
setz),	<ul> <li>enter into a contract with the ne employee at the beginning of th employment relationship.</li> </ul>
orovisions etc. loyment and	<ul> <li>conduct accounting tasks connected with remuneration an outsource HR payroll accountin activities.</li> </ul>
ry ave,	<ul> <li>if necessary, inform the employee about the termination of the employment relationship, state reasons for this step and</li> </ul>
siness	<ul> <li>provide feedback.</li> <li>take all administrative steps in connection with the termination of the employment relationship.</li> </ul>
of ment	<ul> <li>formulate a letter of reference, considering the relevant legal bases.</li> </ul>
tter	
R payroll	

ew	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
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He/she is able to lead staff and take towards HR development.

He/she is able to ensure the health protection of all employees, accordin regulations and laws and monitor the compliance of rules.

ce steps	<ul> <li>He/she has knowledge of the following fields:</li> <li>Leadership theories</li> <li>Leadership styles, models, concepts</li> <li>Motivation techniques, instruments</li> <li>Staff appraisal</li> <li>Talk on prospects, career plan</li> <li>Communication techniques, e.g. for conflict resolution talks</li> <li>Further and continuing training offers</li> <li>Education controlling</li> </ul>	<ul> <li>He/she is able to</li> <li>hold a staff appraisal talk and talk on prospects.</li> <li>draw up a career plan jointly with the employee.</li> <li>assess/rate employees regarding their potential and resources.</li> <li>provide feedback.</li> <li>contribute to the conflict resolution process.</li> </ul>	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
h and safety ding to valid the	<ul> <li>He/she has knowledge of the following fields:</li> <li>Employee protection</li> <li>Accident prevention and accident insurance legislation</li> <li>Reporting obligations in the case of an occupational accident, such as at the labour inspectorate</li> <li>Workplace evaluation</li> <li>Safeguarding provisions for women, young people, people with disabilities</li> <li>Work inspection</li> <li>Legal regulations which must be displayed publicly</li> </ul>	<ul> <li>He/she is able to</li> <li>take measures related to the staff's health and safety protection at work.</li> <li>issue work instructions concerning compliance of employee protection provisions.</li> <li>monitor all measures related to work safety and employee protection.</li> <li>comply with reporting obligations in case of an occupational accident.</li> </ul>	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.



# UNIT 11: Company-based training

He/she is able to plan company-base training and organise related progran according to the Vocational Training

inig		
<ul> <li>Bed He/she has knowledge of the following fields:</li> <li>Methods to identify staff requirements</li> <li>Personnel cost accounting</li> <li>The system of dual training (stakeholders, in-company curriculum, list of apprenticeship occupations, etc.)</li> <li>Organisations involved in dual training (actors, competence distribution, training alliance, etc.)</li> <li>Valid provisions and laws, e.g. vocational training legislation, Act on the protection of children and youths (Kinder- und J ugendschutzgesetz), collective agreements, etc.</li> </ul>	apprenticeship contract, registration of apprentice at part- time vocational school and with	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.



He/she is able to conduct company-b training on the basis of academically recognised methods and monitor trai progress.

# He/she is able to prepare apprentice achieve the training objective.

-based y aining	<ul> <li>He/she has knowledge of the follo fields:</li> <li>Methodology and didactics</li> <li>Dealing with young people</li> <li>Motivation techniques</li> <li>Evaluation methods</li> <li>Valid provisions and laws, e.g. vocational training legislation, the protection of children and (Kinder- und J ugendschutzge collective agreements, etc.</li> </ul>
es to	<ul> <li>He/she has knowledge of the follo fields:</li> <li>Methodology and didactics</li> <li>Dealing with young people</li> <li>Motivation techniques</li> <li>Evaluation methods</li> <li>Valid provisions and laws, e.g. vocational training legislation, the protection of children and (Kinder- und J ugendschutzge collective agreements, etc.</li> </ul>



owing	He/she is able to
	<ul> <li>safeguard that the apprentice is taught all the knowledge and skills specified by the in- company curriculum for the apprenticeship occupation.</li> </ul>
g.	<ul> <li>apply pedagogical and didactic methods.</li> </ul>
, Act on youths setz),	<ul> <li>resolve any possible conflict wit and between apprentices.</li> </ul>
	<ul> <li>monitor the apprentice's performance progress and take measures derived from this.</li> </ul>
owing	He/she is able to
	<ul> <li>safeguard that the apprentice is taught all the knowledge and skills specified by the in-company curriculum for the apprenticeship occupation.</li> <li>apply pedagogical and didactic</li> </ul>
g.	methods.
, Act on youths esetz),	<ul> <li>monitor the achievement of the training objectives and initiate any required corrective measures.</li> </ul>

S	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
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S	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.

## **UNIT 12: Marketing and sales management**

He/she is able to apply the appropria instruments to design policies connec pricing, terms and conditions, produc product lines, services and sales.

He/she is able to communicate within company and with partners.

manayement			
riate nected with lucts and	He/she has knowledge of the following fields: - Fundamental marketing knowledge and knowledge of common marketing	He/she is able to - combine marketing instruments into a marketing mix that is suitable for the company.	He/she acts independently and on his/her own responsibility or has ultimate
	<ul> <li>instruments</li> <li>Market research methods</li> <li>Product, pricing, communication and distribution policies</li> <li>Difference between offline/ online marketing (classic marketing and marketing via the internet)</li> </ul>	<ul> <li>prepare a marketing plan or delegate this task to professionals.</li> <li>apply market research methods, such as prepare a simple sectoral analysis.</li> </ul>	responsibility if he/she delegates this work to a team he/she heads.
hin the	<ul> <li>He/she has knowledge of the following fields:</li> <li>Integrated company communications</li> <li>Internal and external communication methods. (PR, planning of advertising, etc.)</li> <li>R hetoric &amp; communications</li> <li>Teamwork</li> </ul>	<ul> <li>He/she is able to</li> <li>apply the methods of internal and external communications and implement them in a targeted manner.</li> <li>implement in-house company communications.</li> <li>integrate teamwork into in-house company communications.</li> </ul>	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.



He/she is able to conduct market observations and segmentation to de target groups.

He/she is able to implement sales an sales techniques.

define	He/she has knowledge of the following fields: - Importance of market research	<ul> <li>He/she is able to</li> <li>conduct measures of market observation, research and segmentation himself/herself or delegate them to professionals.</li> <li>apply market research methods, such as prepare a simple sectoral analysis.</li> </ul>	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
and after-	<ul> <li>He/she has knowledge of the following fields:</li> <li>Distribution policy and major distribution methods</li> <li>Sales systems, sales types and sales channels, incl. e-commerce</li> <li>Measures of sales promotion and after-sales techniques</li> </ul>	<ul> <li>Apply measures of sales promotion and after-sales techniques</li> </ul>	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.



## UNIT 13: Occupation-specific r

He/she is able to handle customer o select suppliers.

management			
orders and	<ul> <li>He/she has knowledge of the following fields:</li> <li>Content of talks with customers and/or initiate business deals</li> <li>Content of offers/quotes</li> <li>Coordination of appointments</li> <li>Conducting research on suppliers</li> <li>Enquiries to suppliers</li> <li>Selection criteria regarding suppliers</li> </ul>	<ul> <li>He/she is able to</li> <li>conduct talks with customers and/or initiate business deals and provide information about function, price, etc. of goods and services.</li> <li>prepare an offer including information about price, delivery and payment conditions.</li> <li>coordinate appointments for the provision of a service.</li> <li>conduct research for suitable suppliers, such as on the internet, in the telephone directory, etc. and select them.</li> <li>prepare an enquiry to a possible supplier.</li> <li>make a selection of one or several suppliers on the basis of prices, delivery times, delivery conditions, quality of the product, granted discounts, etc.</li> </ul>	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.

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#### He/she is able to advertise own proc services.

<ul> <li>ducts and</li> <li>He/she has knowledge of the following fields: <ul> <li>Customer analysis</li> <li>Points of contact for the designing of advertising measures, such as graphic designers, web programmers, etc.</li> <li>Corporate design</li> <li>Legal provisions, such as the Law against unfair competition (UWG)</li> <li>Advertising measures taken when opening a business and to promote sales during ongoing business</li> <li>(Regional) periodicals and other media</li> <li>E-marketing and e-commerce, such as homepages, direct mailing</li> <li>Customer support and advice</li> <li>Basess the importance of a homepage for his/her own business and commission a related web presence.</li> <li>carry out direct mailing activities and suport to his/her customer base appropriately e.g. by conducting special campaigns, home visits</li> </ul> </li> </ul>			
	ducts and	<ul> <li>fields:</li> <li>Customer analysis</li> <li>Points of contact for the designing of advertising measures, such as graphic designers, web programmers, etc.</li> <li>Corporate design</li> <li>Legal provisions, such as the Law against unfair competition (UWG)</li> <li>Advertising measures taken when opening a business and to promote sales during ongoing business</li> <li>(Regional) periodicals and other media</li> <li>E-marketing and e-commerce, such as homepages, direct mailing</li> </ul>	<ul> <li>conduct a customer analysis and determine the target group.</li> <li>select and commission the appropriate companies to implement the specific advertising measure.</li> <li>develop corporate design for his/her company jointly with the appropriate company.</li> <li>take advertising measures when opening a business or to promote sales during ongoing business, such as opening and advertising offers, advertising activities, open-door day, etc.</li> <li>place corresponding advertisin measures in periodicals.</li> <li>assess the importance of a homepage for his/her own business and commission a related web presence.</li> <li>carry out direct mailing activitie taking into account common legal provision such as the so-called R obinson list.</li> <li>provide advice and support to his/her customer base appropriately e.g. by conductir</li> </ul>



vsis and p.	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
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#### He/she is able to conduct material co measures.

# He/she is able to conduct wage acco and wage calculations for his/her cor

counting	<ul> <li>He/she has knowledge of the following fields:</li> <li>Basic knowledge of costing</li> <li>Types of costs, such as overheads</li> <li>Imputed costs, such as rent, employer's salary. etc.</li> <li>Product costing</li> <li>Calculation of contribution margin</li> </ul>	<ul> <li>He/she is able to</li> <li>determine types of costs.</li> <li>calculate imputed costs.</li> <li>conduct product costing.</li> <li>apply the calculation of the contribution margin.</li> </ul>
counting ompany.	<ul> <li>He/she has knowledge of the following fields:</li> <li>Gross wages including all surcharges, remuneration for overtime and special payments</li> <li>Legal provisions regarding the individual items of the gross pay</li> <li>Legal provision regarding the continuation of wage payments in case of illness</li> <li>Work records</li> <li>Employee's contribution to social security</li> <li>Wage tax including payments exempted from wage tax and commuter allowance</li> <li>Legal provisions about the remittance of wage tax, the employer's contribution, social security contribution and municipal tax</li> <li>Posting of wages, salaries, special payments and surcharges</li> </ul>	<ul> <li>He/she is able to</li> <li>determine the gross wage.</li> <li>calculate the entitlement to continued wage payments.</li> <li>maintain records of work.</li> <li>calculate the employee's contribution to social security, wage tax and employer's contribution, remit and post ther in time.</li> <li>transfer the calculated amounts employees are entitled to.</li> </ul>



	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
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He/she is able to apply occupation-s laws and regulations concerning environmental protection, such as th disposal of oil, paint wastes, etc.

specific	He/she has knowledge of the follo fields:
he	<ul> <li>Legal provisions, such as was water, chemicals' and traffic le</li> <li>Disposal of old cars</li> </ul>
	<ul> <li>In-company techniques and p for business operations that a environmentally conscious as</li> </ul>
	<ul> <li>Possibilities of recycling, such wrecks as a source of raw ma</li> </ul>
	<ul> <li>Rules concerning waste sepa</li> </ul>
	- Competent bodies (public aut



owing	He/she is able to
ste,	<ul> <li>apply the legal provisions in day to-day corporate routine.</li> </ul>
legislation	<ul> <li>dispose of old cars in an environmentally compatible</li> </ul>
oractices	manner.
are as s possible h as car aterials	<ul> <li>implement in-company techniques and practices for environmentally conscious</li> </ul>
	business.
aration thorities)	<ul> <li>apply various possibilities of recycling.</li> </ul>
uronucs,	<ul> <li>separate and dispose of waste according to legal specifications</li> </ul>
	<ul> <li>communicate with competent public authorities and comply with reporting obligations.</li> </ul>

# He/she is able to operate, maintain professionally apply the machines ar equipment in his/her sphere of qualif

These guidelines are part of the project "Building up mutual trust: Zooming in on EQF-level six with regard to the engineering sector" (147848-LLP-2008-AT-KA1EQF), which is funded by the European Commission and the Austrian Federal Ministry of Education, Arts and Culture (BMUKK). The Commission and the BMUKK are not responsible for the contents of this product.

as well as and	He/she has knowledge of the follo fields:
ification.	- Machinery
	<ul> <li>Equipment and resources</li> </ul>
	<ul> <li>Repair as well as companies carry out repairs</li> </ul>
	- Maintenance regulations
	<ul> <li>Possible health, accident and environmental risks as well as protection and safety regulation</li> </ul>



lowing	He/she is able to	He/she acts independently and on his/her own responsibility or has ultimate responsibility if he/she delegates this work to a team he/she heads.
	<ul> <li>operate, use, apply and take machinery and equipment out of operation.</li> </ul>	
which	<ul> <li>professionally use equipment and resources needed to operate machines and use equipments.</li> </ul>	
d s relevant ions	<ul> <li>identify faults and malfunctions on/of machinery and equipment, conduct repairs himself/herself or prompt repairs.</li> </ul>	
	<ul> <li>carry out the professional maintenance in compliance with specific maintenance regulations.</li> </ul>	
	<ul> <li>identify possible health, accident and environmental risks as well as observe relevant protection and safety regulations.</li> </ul>	