


Projekt: IT-BSE Building Service Engineering

Name of the Unit:	Operate, adjust parameters and check proper function of Building Systems		
Reference to the qualification:	Vocational Qualification in Building Maintenance Technology (FI)		
Area of work tasks: Vocational qualification in Energetic Installations and Reneable Energy Sources		EQF-level: 4	DQR-level: 4
<p>Description of the Unit: He/She is able to operate components of building systems according to instructions and to make settings and to check their proper function (Unit 2.1 of the IT:BSE matrix).</p>			
Knowledge	Skills	Competence	
<p>He/she is able to:</p> <ul style="list-style-type: none"> • read wiring schemes • read the instruction manual to check proper function of <ul style="list-style-type: none"> ○ photovoltaic systems ○ combined heat and power plants ○ power distribution units ○ measuring units ○ automation systems ○ compensation systems ○ lighting systems ○ alarm systems ○ access control systems ○ fire extinguishing systems • read technical documentation to adjust parameters of components of <ul style="list-style-type: none"> ○ PV-systems ○ combined heat and power plants 	<p>He/she is able to:</p> <ul style="list-style-type: none"> • operate, adjust parameters and check proper function of components of photovoltaic systems • operate, adjust parameters and check proper function of components of combined heat and power plants • operate, adjust parameters and check proper function of components of power distribution units • operate, adjust parameters and check proper function of components of measuring units • operate, adjust parameters and check proper function of components of compensation systems • operate, adjust parameters and check proper function of components of general 	<p>He/she is able to:</p> <ul style="list-style-type: none"> • cooperate in an multicultural team and adjust work steps with colleagues • plan and carry out work tasks autonomously and professionally • communicate in English with colleagues and customers • understand and consider customer needs and requirements • handle customer orders and customer acceptance 	

<ul style="list-style-type: none"> ○ power distribution units ○ measuring units ○ automation systems ○ compensation systems ○ lighting systems ○ alarm systems ○ access control systems ○ fire extinguishing systems ● describe the functioning of electrical equipment ● describe operating of components of <ul style="list-style-type: none"> ○ PV-systems ○ combined heat and power plants ○ power distribution units ○ measuring units ○ automation systems ○ compensation systems ○ lighting systems ○ alarm systems ○ access control systems ○ fire extinguishing systems ● describe technical norms ● describe regulatory requirements 	<p>lighting</p> <ul style="list-style-type: none"> ● operate, adjust parameters and check proper function of components of emergency lighting ● operate, adjust parameters and check proper function of components of light management and light control ● operate, adjust parameters and check proper function of components of building automation according to instructions ● operate, adjust parameters and check proper function of components of fire alarm systems ● operate, adjust parameters and check proper function of components of intrusion alarm systems ● operate, adjust parameters and check proper function of components of access control systems ● operate, adjust parameters and check proper function of components of fire extinguishing systems 	
<p>Additional information: The Unit will be acquired during a 6 week learning phase in a company. The learner has to achieve at least 50% of the described learning outcomes depending on the companies order inflow and the learners progress in relation to the learning pathway. The learning outcomes are assessed with standardized descriptor-oriented evaluation sheet.</p>		
<p>Developed by: Stefan Homeyer, Adolf-Kolping-Berufskolleg, Kerpen</p>		