

Assessment instruments – work related competences

Evaluation of the internship by the company

Students name:

Company:

Name and position of the instructor:

Date of internship:

Competence area:

Competence area 1- competence development step 1

Learning unit:

He/She is able to assemble and dismantle particular components of building systems according to given assembly/disassembly schedules regarding established norms and standards and to carry out the associated wiring.

He/She is able to properly dispose particular components of building systems in compliance with legal requirements.

Descriptors	Good	Satisfactory	To be improved	Comments
Equipment and systems of heating technology (including regenerative energies).				
He/She is able to install professionally heat-generators to heat buildings and drinking water, connect them with the heat distribution, fuel supply and exhaust gas system and – if required – establish the connection to the electrical system.				
Non-Condensing heating appliance for natural gas/liquid gas/heating oil/pellets				
Condensing boilers for natural gas/liquid gas/heating oil/pellets				
Solar thermal installations				
Heat pump				
Block heat and power station				
fuel cell				
combination water heaters				

He/She is able to install professionally and to connect pipes for heat distribution systems.

pipng material

plastic/synthetic material

copper

steel

composite material

connection method

pressing

plugging

brazing

soft-soldering

screwing together

welding

He/She is able to install professionally fittings and facilities of heat distribution systems and – if required – establish the connection to the electrical system.

Safety valve

Expansion tank heating/solar (MAG-S)

Unregulated circulating pump

Electronically regulated circulating pump

He/She is able to install professionally roomheating systems and connect them to the heat distribution system.

floor heating (systems)

wall heating

overhead heating

flat radiators

radiators

He/She is able to install professionally systems for heat energy storage and connect them with heating and distribution components.

buffer storage

He/She is able to install professionally and to connect pipes of fuel supply systems.

Piping material

steel

copper

plastic

stainless steel

Connection method

pressing

screwing

brazing

He/She is able to install professionally fittings and facilities of fuel supply systems.

gas flow monitor

thermally actuating shut-off device

liquid level indicator

Equipment and systems of air conditioning and ventilating technology (including energy recovery and regenerative energies).

He/She is able to install components for the supply of fresh air, air conditioning and cooling of building systems.

decentralized exhaust air system without energy recovery

centralized exhaust air system without energy recovery

decentralized supply and exhaust air system with energy recovery

centralized supply and exhaust air system with energy recovery

ventilating systems

air conditioning systems

partial air conditioning systems

He/She is able to install professionally ventilation ducts.				
galvanized steel sheets				
stainless steel sheets				
aluminium sheets				
fiber cement boards				
hard plastic plates				
Equipment and systems of sanitary technology (including regenerative energies).				
He/She is able to install professionally and to connect pipes of drinking water systems.				
<i>Piping Material</i>				
plastic				
copper				
stainless steel				
composite material				
<i>Connection method</i>				
pressing				
plugging				
brazing				
soft-soldering				
clamping				
welding				
He/She is able to install professionally components and devices for storage and decentralized heating of drinking water. He is able to establish the water and – if required – electrical connection.				
drinking water tanks				
undertable unit				
tankless water heater				
water boiler				
He is able to install professionally fittings and facilities of drinking water systems and – if required – establish the connection to the electrical system.				
pressure reducer				
shut-off device				
backflow preventers				
system separators				
flush valves				

basin fitting				
mixing battery				
surface-mounted shower fittings				
flush-mounted shower fittings				
surface-mounted outlet fitting				
flush-mounted outlet fitting				
drinking water filter, with back flush				
drinking water filter, without back flush				
pressure booster system				
softening plant				
pipe interrupter				
drinking water circulation pumps				
expansion tank				
He/She is able to install professionally and to connect drainpipes.				
<i>Piping Material</i>				
plastic				
pour				
<i>Connection method</i>				
socket fitting				
mirror welding				
He/She is able to install professionally fittings and facilities of drainage systems and – if required – establish the electrical connection.				
tube aerator				
backflow preventer				
pumping equipment				
macerating pump				
backflow flap				
He/She is able to install professionally components to equip sanitary rooms and connect them with the drainage system and fresh water system.				
facing wall				
floor standing WC				
wall mounted WC				
surface-mounted cistern				
flush-mounted cistern				
washbasin				

shower tray				
floor-level shower				
bathtub				
bidet				
urinal (flushing system)				
urinal (dry)				
air trap/siphon				
floor drain				
Comments of assessor:				