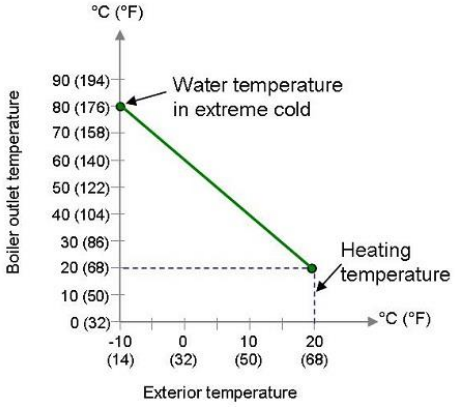
Name : **Date:**

HVAC Learning.com

Exercise Booklet

Print this exercise booklet before studying the lesson on-line. It will enable you to write your answers to the HVAC learning exercises. You will thus be able to switch between reading or listening to the file on-line and writing in the booklet.



REGULATING COLLECTIVE SYSTEMS BY WATER TEMPERATURE VARIATION

English lesson
https://hvac-learning.com/heating/heating-regulating/regulating-collective-systems-by-water-temperature-variation/
French version:
https://formation.xpair.com/cours/regulation-systemes-collectifs-temperature.htm

For each exercise, you will write your answer, then you will study its correction on-line before going to the next exercise.
If you cannot do an exercise, you will be able to study its correction directly, but ***force yourself to write your answer*** *as often as possible.*

Note that between 2 exercises, you will find it necessary to study the course. As a warning, in the booklet, you will sometimes find the following indication:

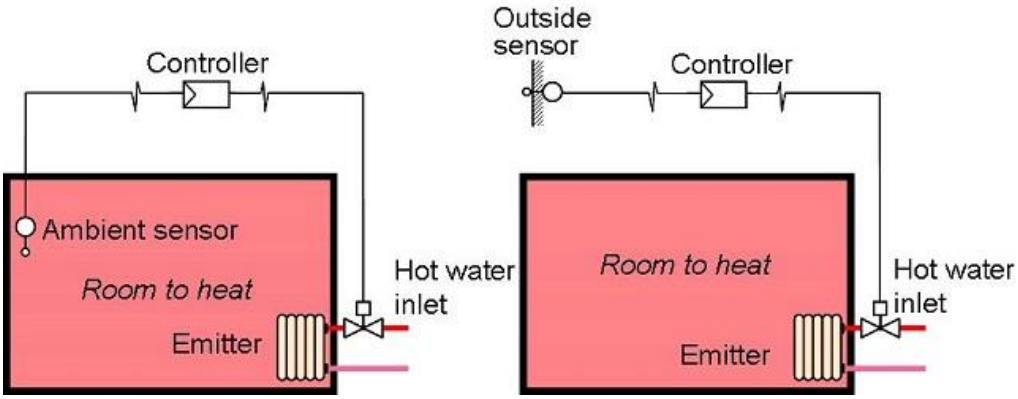
- *"* ***Study the course on-line before doing the next exercise****" or*
- *"* ***Study the course on-line before going to the next paragraph****"*

Only study the paragraphs or the exercises which have an equal or a lower level than the one your training requires.
NVQ Level = Vocational Certificate
A Level = High school Diploma
HND Level = Associate's Degree
MSC Level = Engineering Schools

Then, when you have completed a file, you will be able to assess your level on-line through a Multiple Choice Questionnaire in which you will only answer the questions related to the themes you have studied.
So now off you go and work well!
Good luck!
The Authors.

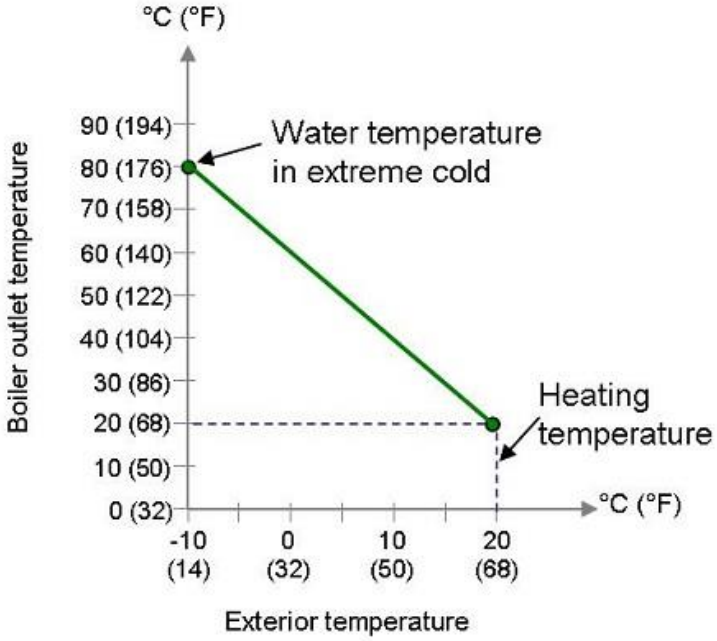
N°1 – The main principles of regulating heating and cooling installations training – NVQ to A level

Study the course on-line.



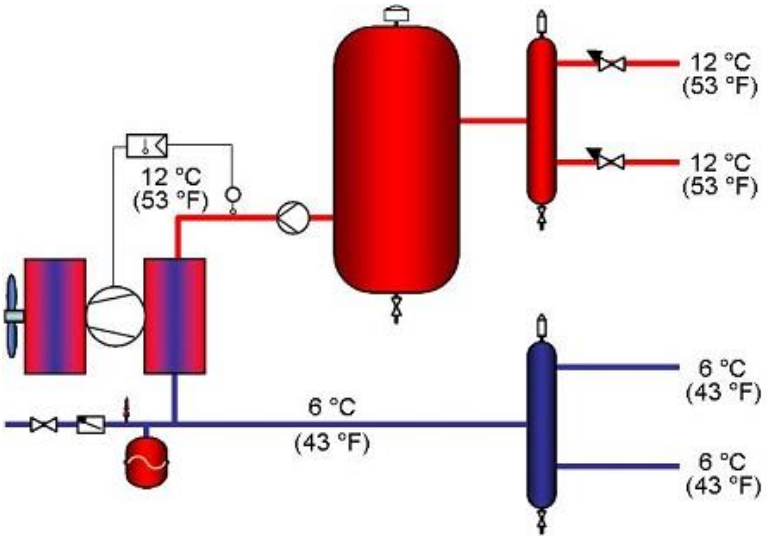
N°2 – Regulating collective heating systems by adjusting the boiler burner training – NVQ to A level

Study the course on-line.



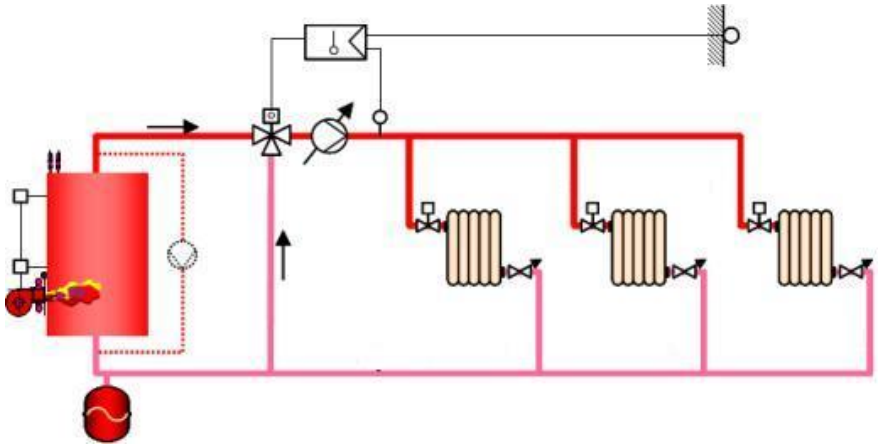
N°3 – Regulating chilled water systems by adjusting the refrigeration unit training – HND level

Study the course on-line.



N°4 – Regulating collective heating systems by control valve adjustment training – NVQ to A level

Study the course on-line before treating the next exercise.

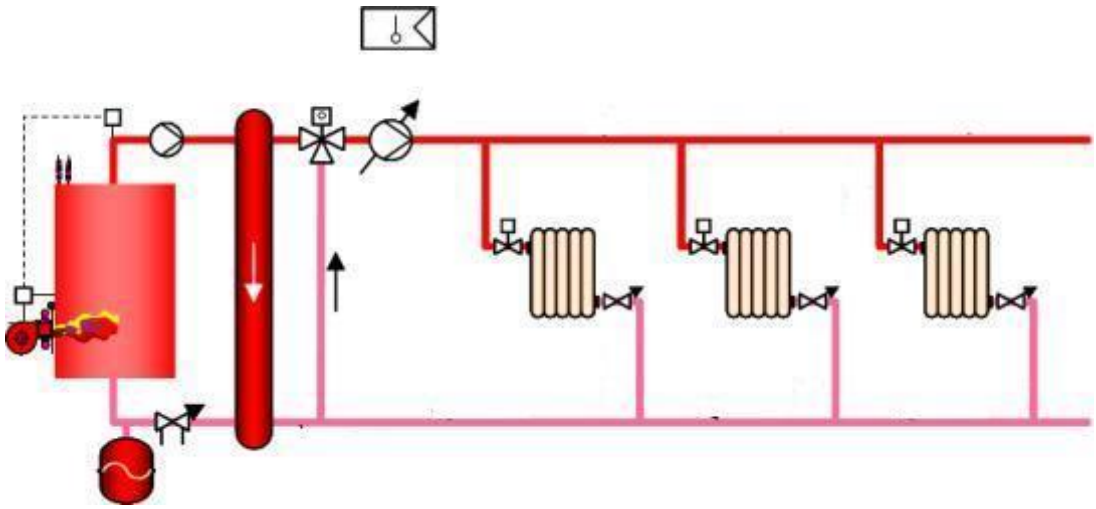


Question 1

Describe the operation of the control chain above as a succession of 5 steps
Step n°1: measuring the exterior temperature, etc.

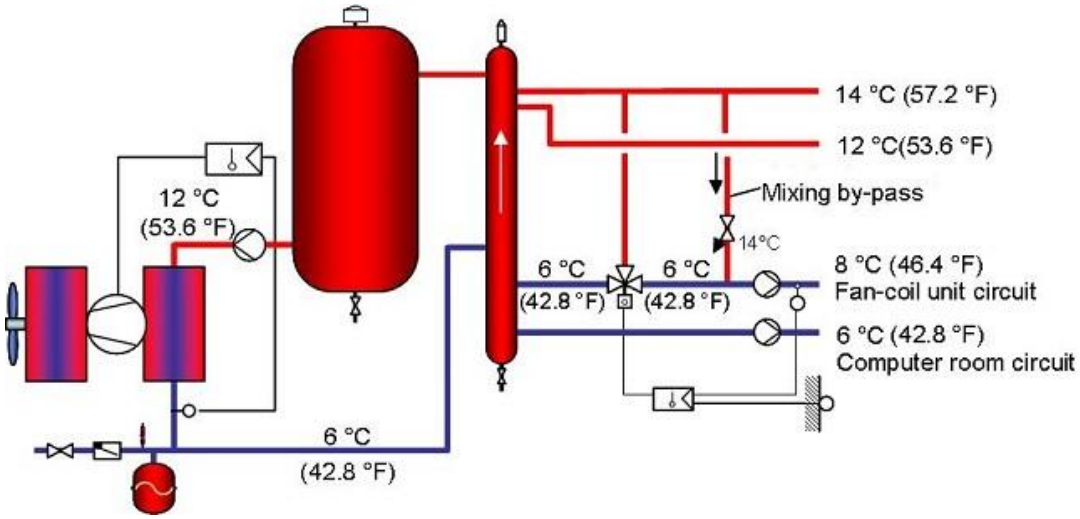
Question 2

Draw the necessary sensors and electrical links for regulating the collective heating installation below:



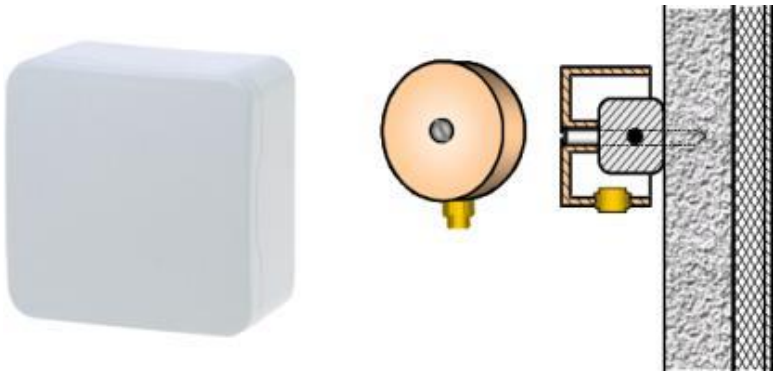
N°5 – Regulating chilled water systems by control valve adjustment training – HND level

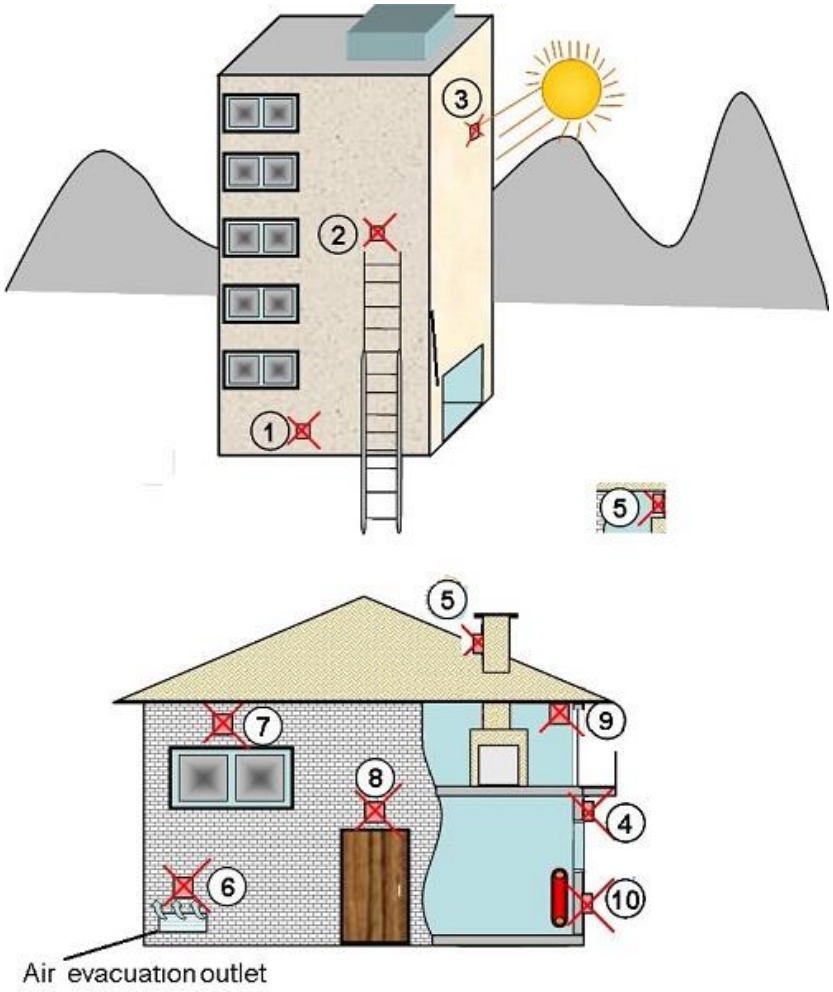
Study the course.



N°6 – Positioning outside sensors on heating installations training – NVQ to A level

Study the course on-line before treating the next exercise.





Question 1

Indicate for each of the sensors above why it has been badly positioned.

1	At the foot of the building	
2	At the top of the facade	
3	Facing the morning sunlight	
4	Under a balcony	
5	At the back of the outside of a chimney flue.	

Question 2

Indicate for each of the sensors above why it has been badly positioned.

6	Above an air evacuation vent	
7	Above a window	
8	Above a door	
9	In a recess under a roof edging.	
10	On the supporting wall of an interior radiator	

N°7 – Positioning interior room sensors training – NVQ to A level

Study the course on-line.

N°8 – Positioning water temperature measuring sensors training – NVQ to A level

Study the course on-line.

English lesson
https://hvac-learning.com/heating/heating-regulating/regulating-collective-systems-by-water-temperature-variation/
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