

Introduction to the course

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Table of Contents

Instructor and office hours	1
Who is this course for?	1
Learning objectives	1
Material and budget	1
Evaluation of the course.....	2
The end	3



Instructor and office hours

The designer and instructor of this course is [Clement Levallois](#)

Office hours:

- **emlyon students:** Fridays 9h-10h at the emlyon campus at Saint Etienne and by appointment (levallois@em-lyon.com)
- **other participants:** get in touch via Twitter: [@seinecle](#)

Who is this course for?

This course is aimed at management students / entrepreneurs / citizens curious about the Internet of Things in a business perspective. No pre-requisite is needed. A knowledge of coding (in any programming language) would help you understand the part where we will code the object. If you don't know how to code, then copy pasting is ok in this course.

Learning objectives

When finishing this course, you will have learnt to:

- create a connected object with a board and a screen, with soldering, able to connect to WiFi.
- write a program to connect to the Internet via WiFi and retrieve an air pollution measure in the location you choose.
- transfer the code to the object: get the object to work.
- understand the business stakes of connected objects, beyond this small object: B2B, B2C, design and security aspects.

Material and budget

We will use components to build the object.

emlyon students: these components are provided to you directly so you can skip this section.

These components, at the time of writing, cost less than 40\$ and are sold online by <http://www.adafruit.com> in the US. For further details, check the lesson "Where to buy components".

We will also need a soldering equipment:



A soldering station can be bought online (see the lesson "Where to buy components") or better, you can find a Makers Lab near you and ask for their help! [Check here](#)

Finally, you will need a micro usb cable to plug your object to your computer. You probably have one already if you have an Android smartphone. Shapes and formats for micro USB keep changing. Here we need the classic format (so, not reversible) [like this one](#).

Evaluation of the course

The evaluation is in two steps:

- a video where you show your object, which should be working. You explain in this video the key difficulty you faced.
- a video where you pick a connected object on the market, and where you explain 1) the function it performs, and 2) the business model behind it.

Grading is as follows:

		video showing the object you made					
	grade is on on 0 to 20 scale (French grading system)		video uploaded, object not working, explanations showing you did not do your best effort	video uploaded, object not working, explanations showing you understand why and you did your best effort	video uploaded, object working, bad explanations on how you got it to work	video uploaded, object working, good explanations on how you made it	video uploaded, new features added to the object, great explanations
		video not uploaded					
video showing your comment on a connected object on the market	video not uploaded	0	4	6	6	8	9
	video uploaded, bad explanations of the features AND bad explanation of the business model	4	6	7	7	9	10
	video uploaded, bad explanations of the features OR bad explanation of the business model	6	7	8	8	10	13
	video uploaded, good explanations of the features AND good explanation of the business model	7	9	12	12	15	18
	video uploaded, outstanding explanations of the features AND outstanding explanation of the business model	8	10	13	13	16	20

Each video should last about 3 minutes and **less than 5 minutes in any case**. The videos should be uploaded online (on Youtube, Vimeo, DailyMotion...).

- **emlyon students only:** send me the links to the video on the dropbox of brightspace.
- **other participants:** you can send me the links to the videos at levallois@em-lyon.com and I'll be happy to evaluate them.

Don't send me video files as I will not open them!

The end

Find references for this lesson, and other lessons, [here](#).



This course is made by Clement Levallois.

Discover my other courses in data / tech for business: <http://www.clementlevallois.net>

Or get in touch via Twitter: [@seinecle](https://twitter.com/seinecle)