


Nº	SKILLS	EXERCISE/LEARNING OUTCOME	MULTIMEDIA PROPOSED	PARTNER IN CHARGE
Common skills				
1	Using of Smartphone and tablets or other devices alike.	Tutorial (instructions)	Video /animation	
Mathematics skills				
2	Triangles and angles operations.	Ramp: calculate de angle of the ramp depending on the inclination percentage, and the length the ramp should have / Roof, and the inclination relation between the inclination angle and the position of the tiles/	Simulation	
3	Rule of three.	Floor flow with the angle needed to evacuate the water To calculate the bricks needed to build a wall (from the needed for 1 m ²)	AR	
4	Geometric shapes	Tile / Pillars / Walls Tracement	AR	
5	Equivalences between several measures (cubic metres - litres).	Preparing mortars, concrete (take into account measures and equivalences	Example with a concrete mixer	
Sciences				
6	Identification within the building site of materials behaviour against cold, fire, dilatation, etc.	Examples of different materials (iron, wood...)	AR (showing the section of a wall for example)	
7	Knowledge of geography (physical geography: how the hot appear, the processes of the natural environment...?).	To have the possibility to move the building N/S/W/E Solar panels and the orientation needed to more efficiency	Animation in 3D	
8	Knowledge of geology (types of soils).	Density of the soil, soil toughness		
9	Knowledge of climatology (coldest to the north, greater humidity at the coast...)	Map country partners with useful information	An European map and the build in different countries	

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10	Knowledge of acoustic properties of materials.	Look number 6: Examples of different materials (iron, wood...)	AR (showing the section of a wall for example)	
11	Knowledge of thermal properties of materials.	Look number 6: Examples of different materials (iron, wood...)	AR (showing the section of a wall for example)	
12	Knowledge of building ventilation.	Image of a house with arrows showing the direction of the air (natural and internal ventilation) in order to show the importance of ventilation	AR	
13	Knowledge of thermal bridges.	Use the thermographic camera to verify the lost of heat in a window	Using thermographic cameras videos	
14	Using of new construction elevation and transportation machinery	Some examples of elevation machinery regarding weight	Simulation + animation	
15	Using of new construction small machinery.	Some example regarding drillers, saw, etc	AR	
16	Using of new technologies applied to building maintenance and renovation (ETICS – External Thermal Isolation System; fastening to the supporting surface)	Concrete example of specific isolation process of roofs, walls	AR	
17	Using of technological progresses regarding the energy rehabilitation of buildings (thermographic camera)	Look thermographic	AR	

LEARNING OUTCOMES OUTLINE

Each learning outcome must include the following documentation

*Identification of the learning outcome

*Aims of the learning outcome

*Contents of the learning outcome:

- Factual Knowledge
- Practical skills (exercise define above)
- Key/transferable skills if any

*Assessment

NOTE: Please remember the **dead line** accorded in our last meeting in Lisbon, the data for that is the **FIRST WEEK OF FEBRUARY**