SUSTAIN	**The bioclimatic approach to eco-construction** s3	**session plan** **EQF level 5** units of L.O. SUSTAIN 1 & 2

Objectives

- Propose and argue technical solutions based on eco-construction and bioclimatic principles

Methods

- Introductory presentation about bioclimatism
- Team exercise to imagine a bioclimatic building for a given place
- Presentation by participants, complements by trainers

Place
Class room

Time
3H30

Content

- Main principles of eco-construction
- Basics of bioclimatism
- Ecological interest of combining materials

Documents

- i_approche écologique JPO (schéma homme dans cosmos)
- t_resources

Activities

- Introduce bioclimatism
- Introduce the exercise, create groups of 2-3, each group needs Internet access and a computer
  Instructions:
  Imagine and describe an eco building (for ex. 1 school, 1 private house, 1 office building) for a real place including:
  - Building system, materials
  - Heating system
  - Ventilation
  - Water management
  - Orientation (sun, wind, sun masks* …)
- Each group prepares a plenary presentation
- Plenary discussion of each project and complements by the trainers

Equipment

- beamer
- paperboard & pens
- tables
- computers

Preparation before the session

Select a place and present pictures and its bio-geographical and sociological characteristics and resources to the participants

* a form (like a tree or a building) in the way of the sun rays that a building receives; this term refers to natural and made shading, and you would use in a solar calc using a sun path