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## BEGINNERS' PROGRAM

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### DURATION : 2 DAYS

Vitrages Décision is piece of calculation software designed by Ginger CEBTP which is intended to be used for sizing and checking glazings.



### PREREQUISITES

Basic knowledge of thermal science in buildings and mechanical calculations.



### RELEVANT PERSONS

This training course is aimed at companies that purchased the software as well as the individuals required to use it, either in the product design stage or in checking or optimising glazing.



### TRAINING FACILITATORS

**Yanisse Nait Bouda** : Project Manager, Thermal & Energy Department.

**Aurélien Gaudron** : Director of the Building Envelope Division.



### OBJECTIVES

- Get to know the software content and features for each module.
- Get to know the calculation rules that the software is based on.
- Know the entry data used in Vitrages Décision calculations.
- Know how to make some calculations.

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### GETTING STARTED WITH THE SOFTWARE

Installation, menus, modules

- Obstacles
- Glass workshop

### THERMAL ASPECT IN VITRAGES DÉCISION

Theoretical basis:

- Solar radiation
- Interaction of glazing with solar radiation
- Heat transfer through glazing
- Calculating thermal exchanges in glazing due to sunlight
- Thermal breakage
- Calculating solar factor

### MECHANICAL BEHAVIOUR OF GLAZING

- Operations, etc.
- Temperature action
- Associated loads
- TIMO... the theory of plates
- Calculating internal pressure
- Application with Vitrages Décision
- DTU 39 tools