

PLAYING WITH ISO



Module II



Course
Video
concept



Topic 2
Camera
Settings



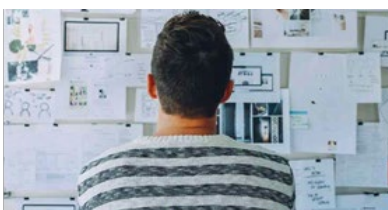
Lesson 2

Activity

- **Short Description:** Students will practice how to configure the ISO value of their cameras by shooting a scene about some natural or cultural heritage with different ISO values.
- **Methodology:** Research-based learning.
- **Duration:** 2 hours
- **Difficulty (high - medium - low):** Medium
- **Individual / Team:** Footage individual/Discussion in group
- **Classroom / House:** Footage in the street/Discussion in the classroom
- **What do we need to do this activity?**
 - **Hardware:** Video Camera
 - **Software:** None
 - **Other resources:** Pen and paper

Description

- **Text description:** The purpose of this activity is students to be able to configure the ISO value of their cameras by practicing with the cultural or natural element they have chosen.



Instructions:

Each student will work with a different heritage element. They should use a video camera (smartphones do not allow to configure this parameters) and configure the FPS and the aperture in auto mode. These are the steps to follow:

1. Select the cultural or natural heritage to disseminate through a video (apply what you have learnt in topic 1)
2. Shoot a 20'' video: first, use the base ISO value of your camera and then increase the value until the scene is affected. What problems appear on the scene? (answer: noise, reduced colour accuracy and reduced dynamic range)
3. Go to an outdoor scene and shoot a 20'' video with basic ISO and high ISO. Compare results. (Tips: with low ISO you will get more dynamic range, accurate colour and cleaner image; with high ISO you will have less dynamic range, muted colours and noise)
4. Go to an indoor scene and shoot a 20'' video with basic ISO and high ISO. Compare results. (Tips: the same as in step 3)
5. Try shooting a moving subject at a low ISO in a low light situation. Take into consideration your shutter speed. Observe your results. (Tips: your shutter speed is not going to be fast enough and the object may blur)
6. Find a solution to fix the results of exercise 5. (Tip: You bump the ISO up which in turn is going to raise your shutter speed and allow you to freeze motion)
7. Go to an outdoor scene at night, place still your camera and work with your ISO numbers.
8. Shoot a 10'' video of your heritage element using the ISO value that best fits taking into account the natural light of the moment of the day you want to show in your video.

Expected outcomes

- Configure the ISO value of their cameras depending on the light and movement of the scene.

This activity can be used in other (module, course, topic, lesson):

Module II, Course Photograph-video concept, Topic I, Lesson 2

DIGICOMP (Competences developed): Developing digital content

ENTRECOMP (Competences developed): Learning through experience

Example (when necessary): Watch pill T2.L2.1

