

**SilverCoders** EMPOWERING SENIORS

DIGITAL LITERACY IMPROVEMENT THROUGH EFFECTIVE

LEARNING EXPERCIENCES FOR ADULTS

# Challenge 12 VIDEO AND AUDIO EDITING

ERASMUS+ No. *2020-1-SE01-KA227-ADU-092582*

**CODING TRAINING PROGRAMME FOR +55 ADULTS**



STRUCTURE OF THE CHALLENGE

## DESCRIPTION

The trainees will first learn about audio editing and then discover tools that will allow them to do it themselves.

They will learn how to use Audacity, an audio editing software, and will perform certain actions manipulating an audio file.

Then the trainees will learn about video editing and then discover tools that will allow them to do it themselves.

They will learn how to use OpenShot Video Editor, a video editing software, and will then create their own video stitching together video clips, images and audio files.

## GENERAL GOAL

Learn how to use tools in order to edit audio and video files.

## LEARNING OBJECTIVE

Understanding what audio editing is.

Finding tools to do audio editing.

Using specific software to perform audio editing actions.

Understanding what video editing is.

Finding tools to do video editing.

Using specific software to perform video editing actions.

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| INSTRUCTIONS |

**AUDIO EDITING**

What is Audio Editing?

Find out what audio editing is.

<https://www.mediamusicnow.co.uk/information/glossary-of-music-production-terms/audio-editing.aspx>

<https://www.audioshapers.com/blog/what-is-audio-editing.html>

How to do Audio Editing?

Search for available audio editing tools.

Download and install Audacity, the most popular free to use software for audio editing.

Learn more about the user interface of Audacity.

<https://www.audacityteam.org>

<https://manual.audacityteam.org/>

Editing an Audio File

Find an audio file of human speech or record one yourself, if you have a microphone.

Import the audio file into Audacity.

Look at the waveform and zoom in or out to see it in detail.

Listen to the imported audio and use the different actions to control the playback.

Try to find parts of the audio that aren’t clear and highlight them. Those parts contain what is called noise.

Use the Effects selection of Audacity to remove the noise.

Highlight the whole clip and apply the Normalisation effect to the audio file

Highlight the whole clip and apply the Equalisation effect to the audio file.

Highlight the whole clip and apply the Compressor effect to the audio file.

Experiment with different effects and alter their parameters.

Export the resulting file.

**VIDEO EDITING**

What is Video Editing?

Find out what video editing is.

How to do Video Editing?

Search for available video editing tools.

Download and install OpenShot Video Editor.

Learn more about its user interface.

<https://en.wikipedia.org/wiki/Video_editing>

<https://www.mediacollege.com/video/editing/tutorial/definition.html>

Editing a Video

Find at least one video file and a couple of images and sound files.

Import them into the OpenShot Video Editor.

Add them to the timeline tracks and try to navigate the timeline.

Select a clip and move it through the timeline and between tracks.

See how the preview window changes based on where each clip is in the timeline.

View the properties of a clip and experiment with their values.

Add visual and audio transitions between your clips.

Apply some of the available effects to your video clips.

Add some basic text to your clips.

Save and export the resulting video file.

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| RESOURCES |
| EDITING AN AUDIO FILE  <https://www.youtube.com/watch?v=aCisC3sHneM>  <https://manual.audacityteam.org/man/tutorial_editing_an_existing_file.html>  AUDIO EDITOR ALTERNATIVE  <https://audiomass.co/>  HOW TO DO VIDEO EDITING?  <https://www.openshot.org/>  ALTERNATIVE VIDEO EDITOR  <https://clipchamp.com/en/>  EDIT A VIDEO  <https://www.youtube.com/watch?v=TeKRsMO_6Rw>  <https://www.youtube.com/watch?v=rLWXlc1BW-I> |

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| QUIZ |

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| 1. **Noise in audio cannot be fixed.**   (yes/**no**)  Feedback: Audacity offers a lot of tools to fix noise. |
| 1. **Which one of them manipulates the sound my frequency?** 2. Normalisation 3. Compressor 4. **Equalisation** |
| 1. **You cannot merge audio with videos**   (yes/**no**)  Feedback: On openshot(or other video editing tools) you can merge videos with audio files easily. |
| 1. **You can add transitions inside a video**   **(yes/**no**)** |
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