



**INGA 3D - Creative transfer of competence in 3D footwear
CAD to VET professionals**

LLP-LdV-ToI/2013-RO-024

3D Footwear Computer Aided Design

Handbook

Module II

**3D CAD - APPLICATIONS TO BASIC FOOTWEAR
CONSTRUCTIONS**

Course introduction and teaching methodology

With this course you will learn how to use the footwear design software “Icad3D+”, which will help you design and create virtual footwear models, from the preparation of the digital last to the virtual rendering of the finished model.

This is a blended learning course that involves digital and physical teaching resources.

The core of the course is intended for face-to-face training and implies two basic requirements: CAD software / class with computers with the Icad3d+ software installed, and Internet connection to access the Online Learning Platform, where the training material is hosted.

The course is structured in Modules, so it can be customised by the trainees according to their training needs. It is split into four Modules, which in turn are subdivided into Units and Lessons. Please refer to the tables of contents of each Module.

This course has been conceived to be taught using the computer as a teaching means. The contents are expressed in text and image format, but there is no audio associated to them.

Knowledge transfer is based on slide presentations that provide step-by-step explanations (using text and static images) on how to use each of the software functions. To improve the knowledge of the theoretical-practical concepts, the slides are complemented by illustrative videos that show moving images of the theoretical content presented in the slides, in a fast, continuous and purely practical way. Each lesson has a multiple-choice test to assess the trainee’s learning.

Recommendations for effective learning

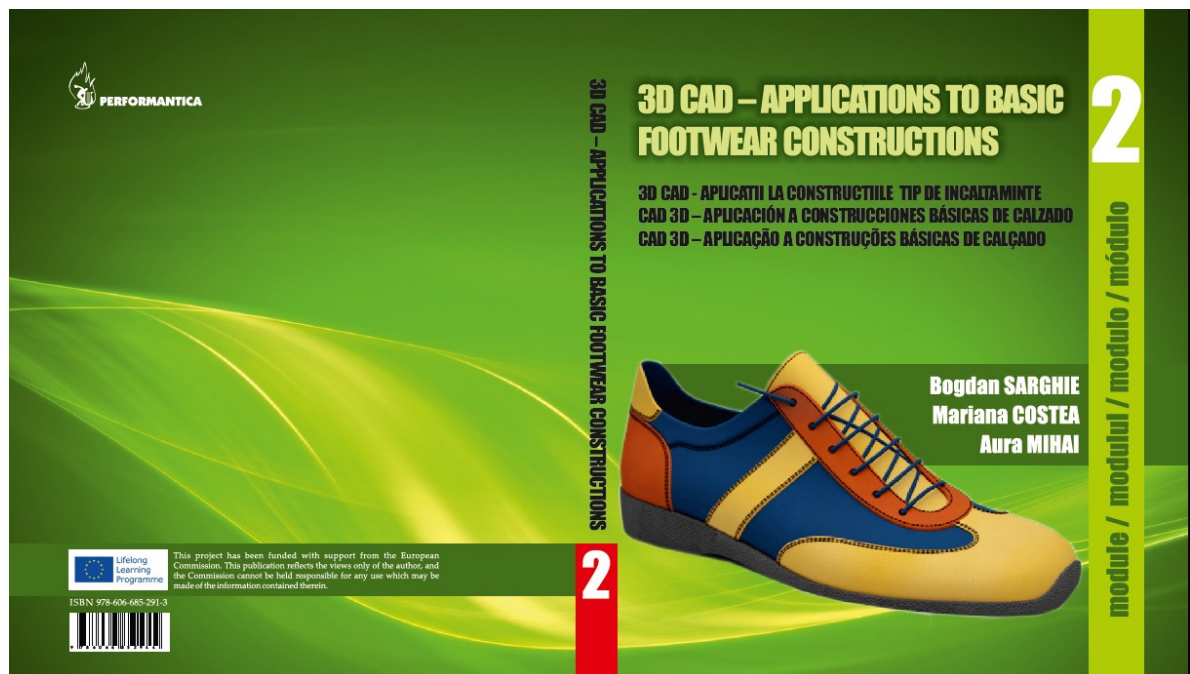
- Access the lessons available from the Online Learning Platform (slide presentations), read the texts carefully and see the images on them.
- After reading each lesson, watch the associated videos to improve your understanding of the theoretical-practical concepts. The videos do not contain explanations; they are just a dynamic-visual complement to the learning contents presented on the slides.
- Access the assessment test when you think you have learnt the concepts.
- Practice the knowledge learnt using the Icad3D+ software whenever possible, to promote the development of the skills and competences pursued in this course.
- Make questions to your tutor/trainer to clarify possible doubts that may arise during the learning process.

Description of Module II

This module introduces practical lessons which are based on the learning outcomes accumulated by students in Module 1. Each lesson is designed as a tutorial which covers the 3D modelling steps and the necessary Icad3D+ tools for completing basic models for women’s, men’s and children’s footwear by: processing the lasts, designing the 3D model lines, transferring and controlling 3D lines with 2D drawings, creating pieces, adding texture, stitches and accessories, modelling the 3D shape of sole and heel, rendering. The main objectives of this module are:

- to apply the 3D CAD technology powered by Icad3D+ software for designing basic footwear constructions types;
- to practice the 3D modelling process to a range of different footwear styles, characteristics and features which are compatible with design requirements and expectations;
- to develop skills and competences in producing detailed virtual models of women’s, men’s and children’s footwear.

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