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# Virtual Learning Environment system requirements and data collection

Unit 3.1.1

**DigiProf**



## What is Virtual Learning Environment

Virtual Learning Environment (VLE) is a system that includes tools for delivering e-learning materials, organising learning activities, communicating and collaborating with learners.

In VLE we found:

- learning materials
- lecture recordings
- slides
- quizzes and assignments



## Virtual Learning Environment Moodle

Moodle is open-source platform:

- easy to install;
- updates whenever needed;
- the environment always has a backup;
- monitor learning activities;
- subjects can be sorted into different categories;
- user-friendly;
- security.



## Prepare for installation Moodle 4

### Minimum hardware requirements to install Moodle 4:

- Disk space: 200MB for the Moodle code, plus minimum 5GB to store content.
- Processor: 1 GHz (min), 2 GHz dual core or more recommended.
- Memory: 512MB (min), 1GB or more is recommended. 8GB plus is likely on a large production server.
- Separate servers for the web "front ends" and the database. It is much easier to "tune".

## VLE Moodle 4

Additional fields need to be added to the VLE to prepare for the issue of the micro-credential:

- Learning
- Form of study
- The scope of learning
- Study language
- Contact hours
- Duration of the course in days, weeks, months
- Learning outcomes
- Assessment of learning outcomes

### Course custom fields

Add a new category



#### Course details



Add a new custom field ▾

#### Custom field

✚ Mode of study

✚ Form of study

✚ Volume of learning in ECTS

✚ Volume of learning in hours

✚ Study language

✚ Workload of learning (hours)

✚ Workload of learning

✚ Place of study



## VLE Moodle 4 (2)

- Additional information about the learner

### User profile fields

Create a new profile category

### Other fields ⚙

Create a new profile field ▾

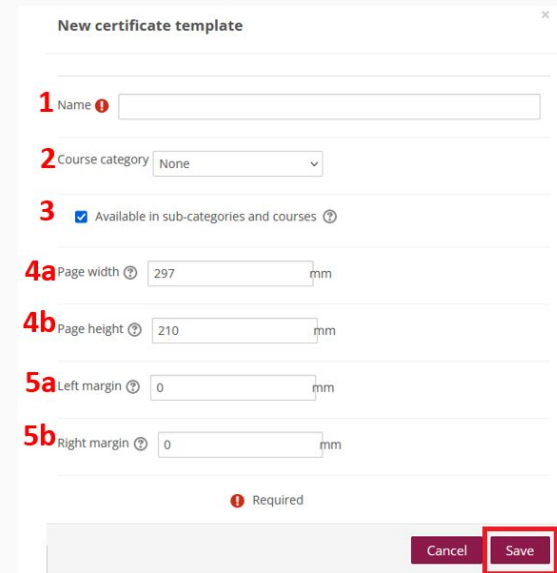
#### Profile field

National identification number

Personal No.

# Prepare course certificate template in Moodle

1. Name
2. Course category
3. Available in sub-categories and courses
4. a. Page width and b. Page height
5. a. Left margin and b. Right margin



The screenshot shows the 'New certificate template' form in Moodle. The form is titled 'New certificate template' and has a close button (X) in the top right corner. The form contains the following fields and options:

- 1 Name**: A text input field with a red '1' and a required field icon (red circle with exclamation mark).
- 2 Course category**: A dropdown menu with 'None' selected.
- 3**: A checkbox labeled 'Available in sub-categories and courses' with a help icon (question mark in a circle).
- 4a Page width**: A text input field with '297' and 'mm'.
- 4b Page height**: A text input field with '210' and 'mm'.
- 5a Left margin**: A text input field with '0' and 'mm'.
- 5b Right margin**: A text input field with '0' and 'mm'.

At the bottom of the form, there is a red 'Required' indicator. Below the form, there are two buttons: 'Cancel' and 'Save'. The 'Save' button is highlighted with a red border.

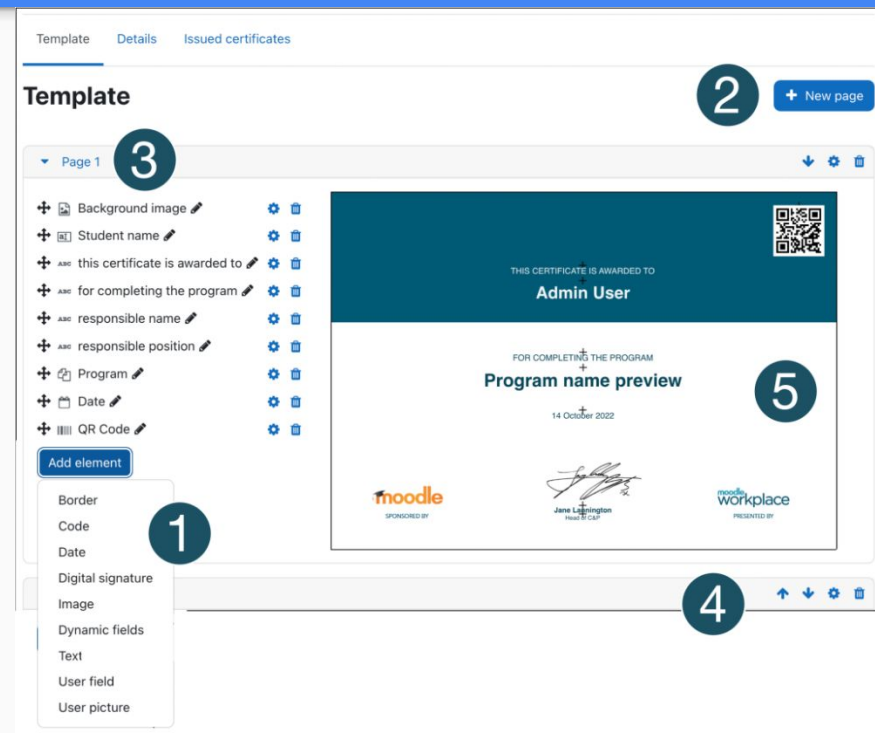
## Certificate template design

There are more than one template to choose for issue microcredential.

When template is chosen:

- Add and move elements
- Add new certificate page
- Expand and collapse the current page
- Page (only for multi-page certificates)
- Certificate canvas, for dragging and dropping elements

This template is only an example of how digital microcredential certificate could look like.



Template Details Issued certificates

### Template

+ New page

Page 1

- + Background image
- + Student name
- + this certificate is awarded to
- + for completing the program
- + responsible name
- + responsible position
- + Program
- + Date
- + QR Code

Add element

- Border
- Code
- Date
- Digital signature
- Image
- Dynamic fields
- Text
- User field
- User picture

2

3

1

4

5

THIS CERTIFICATE IS AWARDED TO  
Admin User

FOR COMPLETING THE PROGRAM  
Program name preview

14 October 2022

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