

Integrating Open Badge Factory with Moodle™ LMS using local-obf plugin

version	Date	Release note
1.0	2023-09-26	Document issued
1.1	2025-07-10	Removed the possibility to create new API connections with a legacy key.

Table of Contents

1. About this plugin.....	2
2. Connecting Open Badge Factory to Moodle.....	3
2.1. Plugin installation.....	3
2.2. Establishing a connection to OBF.....	3
2.3. Set badge permissions.....	6
2.4. Other advanced settings.....	7
2.5. Exporting Moodle badges.....	8
2.6. Badge list.....	9
2.7. Set displayer badge source.....	10
3. Usage.....	11
3.1. Issuing a badge to course participants.....	12
3.2. Create badge awarding rules.....	13
Issuing a badge automatically on activity completion.....	14
Issuing a badge automatically on course completion.....	15
Issuing a badge automatically on profile completion.....	16
3.3. Notifications.....	17
3.4. Awarding history.....	18
3.5. Revoking a badge.....	18
4. Displaying badge on user profiles.....	20
4.1. OBF badges issued in Moodle.....	20
4.2. Open badge passport badges.....	21

1. About this plugin

Open Badge Factory is a cloud platform that provides the tools your organisation needs to implement a meaningful and sustainable Open Badges system.

This [local_obf plugin](#) enables users to:

- Issue badges created in [Open Badge Factory](#) to students
- Create badge awarding rules: based on course completion, based on activity completion, or on profile completion
- Get badge awarding history
- Display earned badges on profile and connect the Open Badge Passport backpack

To use this plugin you need a Pro account.

Multitenancy support:

- You can connect one OBF account to multiple Moodle sites.
- You can also [connect multiple OBF accounts](#) to a single Moodle site using individual OAuth2 API keys.

This plugin can be used for [CanCred Factory](#) (powered by Open Badge Factory).

2. Connecting Open Badge Factory to Moodle

2.1. Plugin installation

To install the plugin, login to your Moodle site as a Site Administrator. Then navigate to Site Administration > Plugins > Install plugins, you can either:

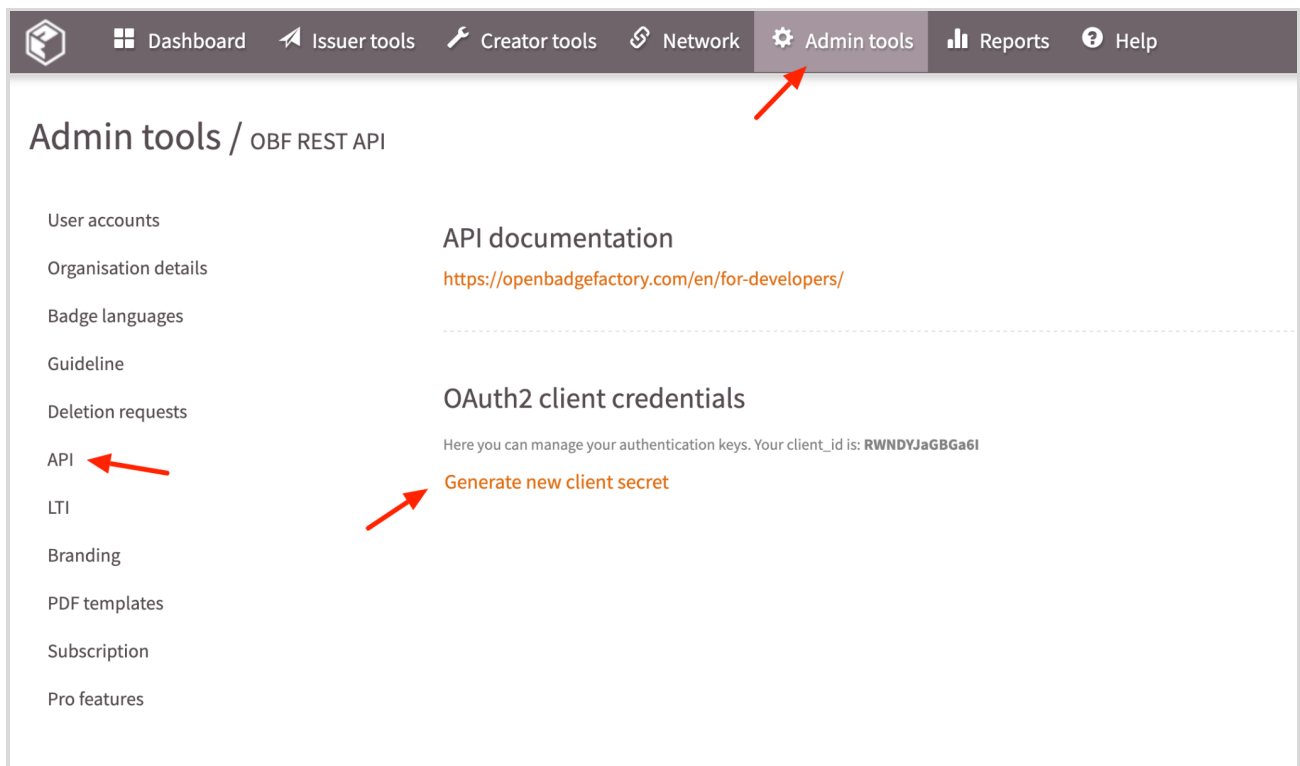
- Install the Plugin Directly from the Moodle Plugins Directory
- Or manually Install the Plugins from ZIP File (available on https://moodle.org/plugins/local_obf)

Once the plugin is installed, you can access the plugin configuration and connect your OBF account with your Moodle site on Site Administration > Open Badges:

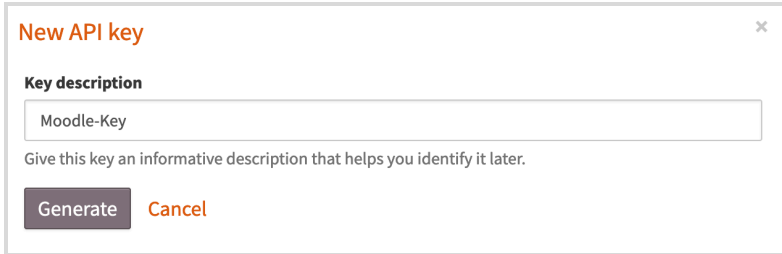


2.2. Establishing a connection to OBF

You need to generate an API key from OBF. Log in to Open Badge Factory and go to Admin tools > API



You must first generate your key, click **Generate new client secret** and set a description for your new key:



New API key [X]

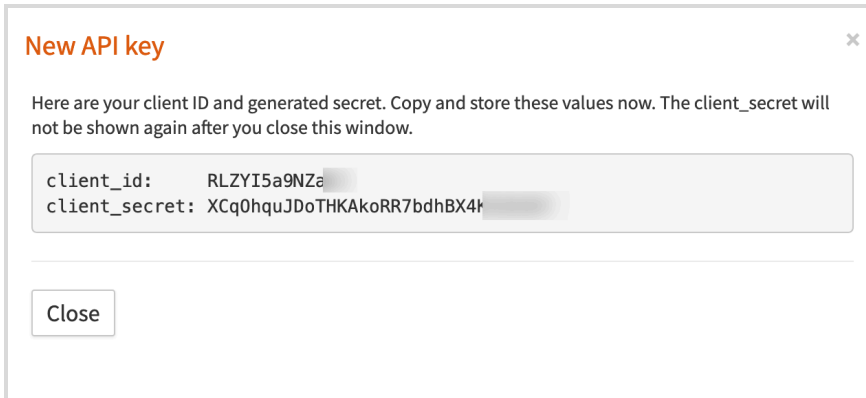
Key description

Moodle-Key

Give this key an informative description that helps you identify it later.

Generate **Cancel**

Click **Generate** and copy the generated client_id and client_secret::



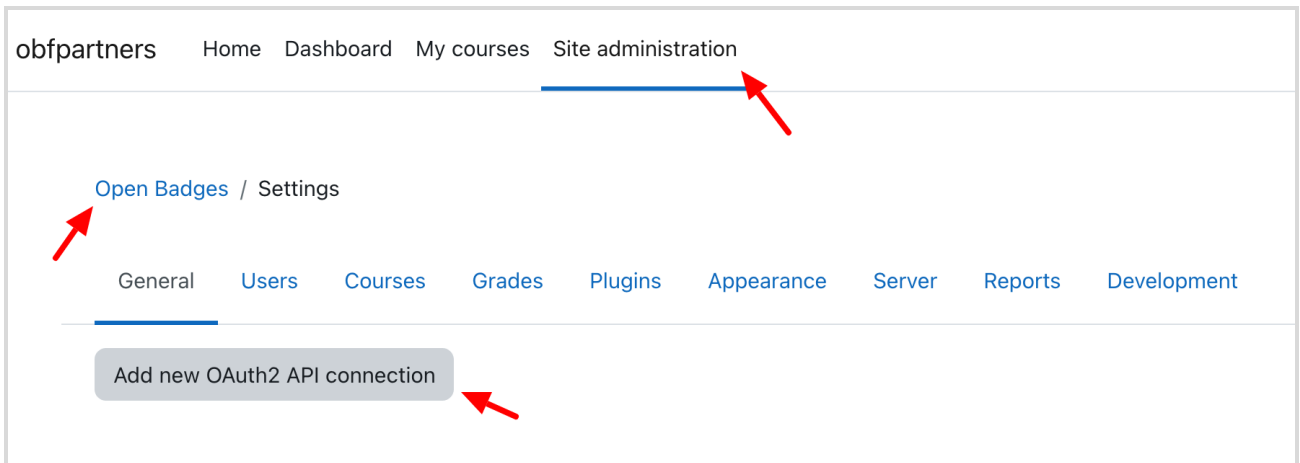
New API key [X]

Here are your client ID and generated secret. Copy and store these values now. The client_secret will not be shown again after you close this window.

client_id: RLZYI5a9NZa
client_secret: XCq0hquJD0THKAkoRR7bdhBX4h

Close

Log into Moodle as a Site Administrator and add the API key you copied from OBF to **Site administration** → **Open Badges** → **Settings** and click **Add new OAuth2 API connection**



obfpartners Home Dashboard My courses **Site administration**

Open Badges / Settings

General **Users** Courses Grades Plugins Appearance Server Reports Development

Add new OAuth2 API connection

Paste your client_id and client_secret, set roles authorised to issue badges and click **Add new client** :

obfpartners Home Dashboard My courses Site administration

Open Badges / Settings

General Users Courses Grades Plugins Appearance Server Reports Development

Client

API URL

!

?

https://openbadgefactory.com

Client ID

!

?

RV5JHQaF93a

Client secret

!

?

Issuer roles

Authorize roles to issue badges for this client:

☒ manager

☒ coursecreator

☒ editingteacher

☒ teacher

Here you can define where badges will be available, by matching OBF categories with Moodle categories. By default, without specific rule, your OBF badges will be available on all your Moodle categories.

Add a rule

Add new client

Cancel

Congrats! Your OBF account is now connected to your Moodle!

obfpartners Home Dashboard My courses Site administration

Open Badges / Settings

General Users Courses Grades Plugins Appearance Server Reports Development

Client name	API URL	Client ID	Client secret	Actions
	https://openbadgefactory.com	RV5JHQaF93a	*****HQM	<div>⚙️</div> <div>🗑️</div>

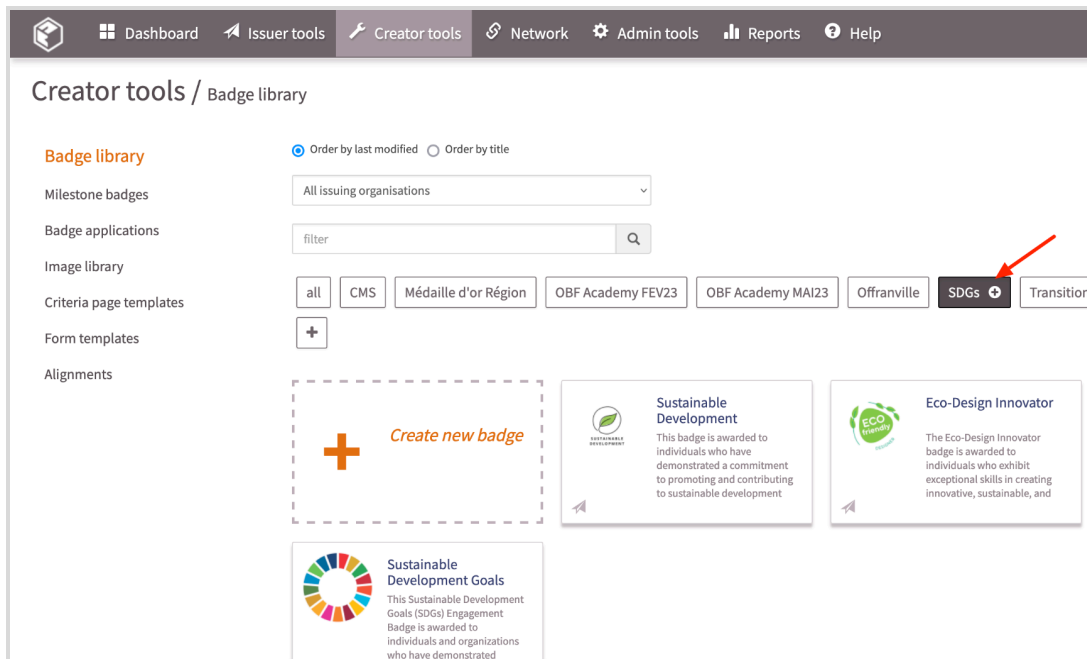
Add new

Note that Pro customers can set several clients here, connect multiple OBF to this Moodle ([see video](#)).

2.3. Set badge permissions

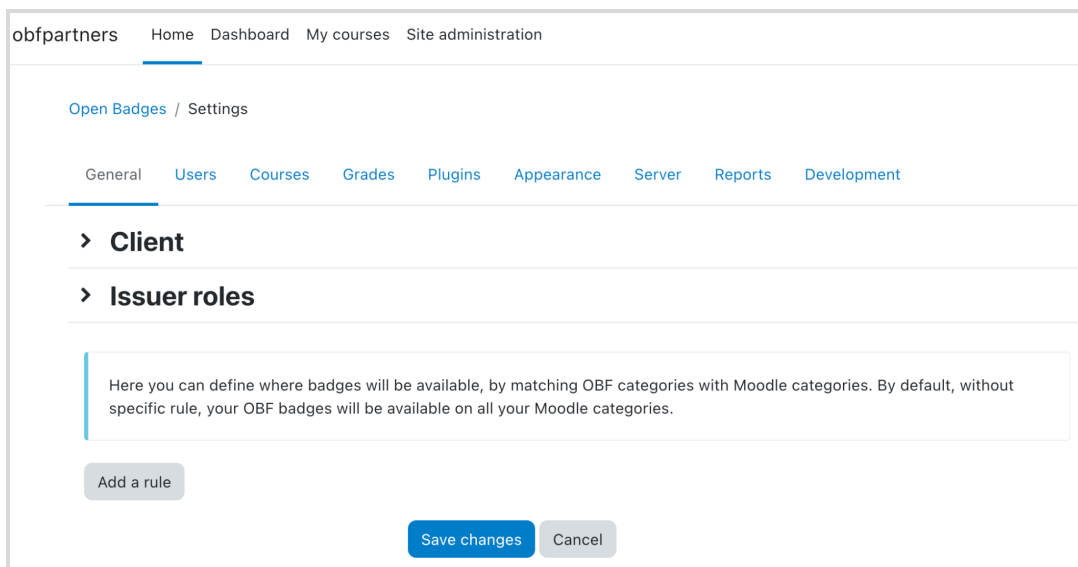
For each Oauth2 client, you can set specific badge permissions on Moodle categories (link OBF categories with Moodle categories).

For instance, you have classified some badges in OBF, into a “SDGs” category:



And you want to make those badges available into the related SDGs course category in Moodle.

You can add a specific rule. Edit your client and click the **Add a rule** button:



Then choose your Moodle category.ies, and match with your OBF category.ies:

▼ Rules 1

Choose your moodle categories

× SDGs

Search

▼

Choose your OBF categories

× SDGs

Search

▼

Delete this rule

Here you can define where badges will be available, by matching OBF categories with Moodle categories. By default, without specific rule, your OBF badges will be available on all your Moodle categories.

Add a rule

Save changes

Cancel

Repeat those steps to add a new rule.


Important:

- A specific rule will be applied to all related Moodle child course categories.
- Without any specific rules, your OBF badges will be available on all your Moodle categories.

2.4. Other advanced settings

You can configure advanced settings:

Settings

☐ Disable badge assertion cache 

☐ Delete awarding rules when course is reset.

Display of user badges

Users can choose to display badges

Badge issuing events

Show only badges issued from this system

Save

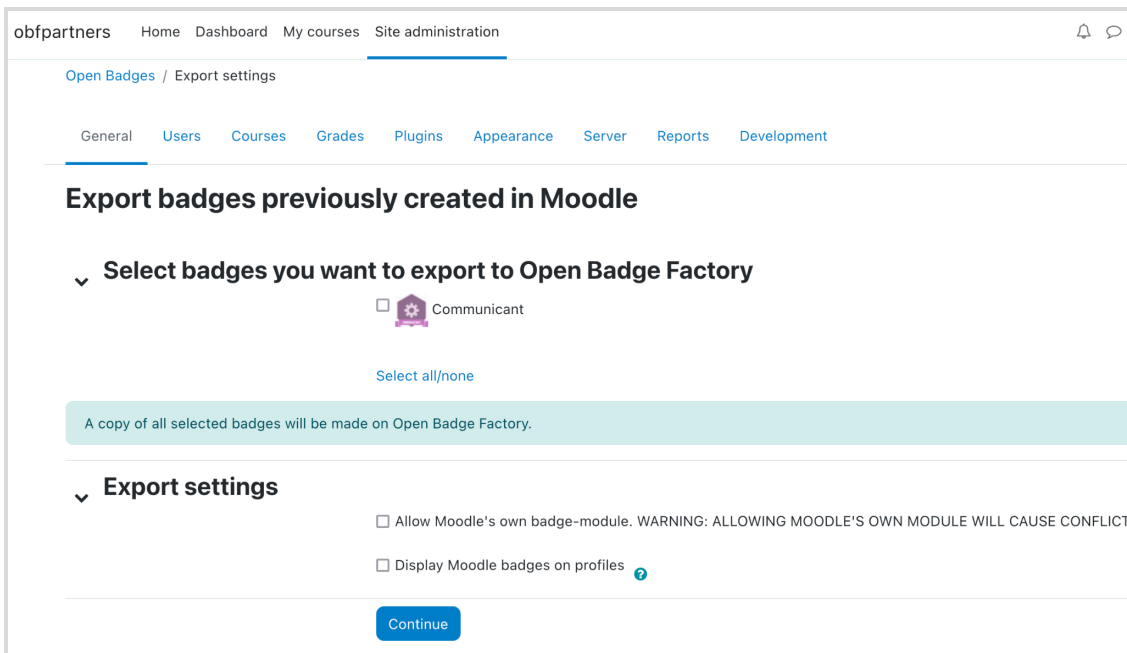
- **Disable badge assertion cache:** badges on profile will not be cached, they'll appear on profile without delay. Note that this could affect the profile page loading performance.
- **Delete awarding rules when course is reset:** for each course you'll reset, all badges associated rules will be removed

- **Display of user badges:** you can define if:
 - Badges are displayed by default on profile pages
 - Badges are not displayed on profile pages
 - Users can decide if they want to display their badges on profile page
- **Badge issuing events:** you can specify if all badges events issued with OBF are displayed in the Awarding history, or only events related to your Moodle installation.

2.5. Exporting Moodle badges

If Moodle's own badges are found in the system, they can be exported to OBF. The exported badges are visible to everyone using the API (e.g. users in Moodle). Additionally, it is recommended that Moodle's own badge system is disabled to avoid multiple badge views.

To export your Moodle badges to OBF, go to **Site administration** → **Open Badges** → **Export settings**

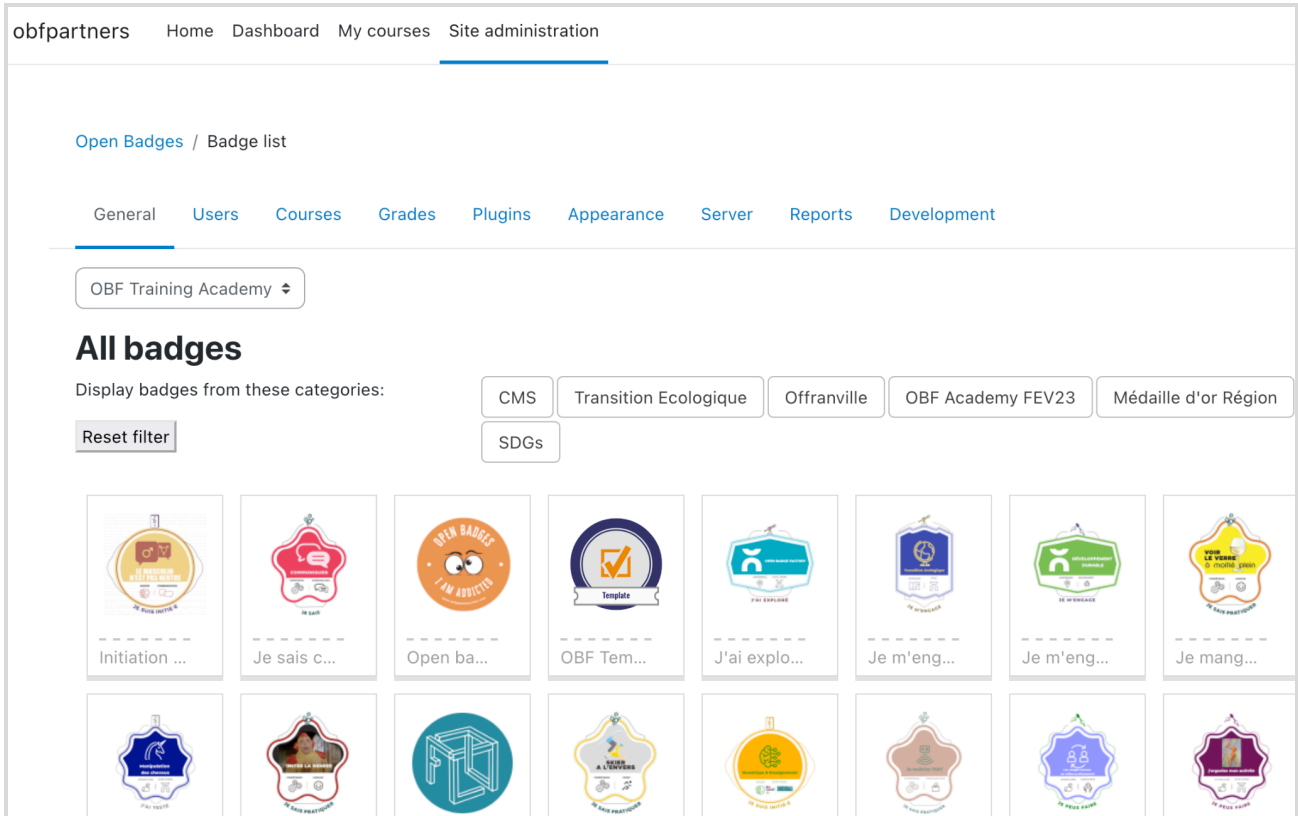


The screenshot shows the Moodle Site administration interface. The breadcrumb trail is: obfpartners > Home > Dashboard > My courses > Site administration > Open Badges > Export settings. The 'Open Badges / Export settings' page has tabs for General, Users, Courses, Grades, Plugins, Appearance, Server, Reports, and Development. The 'General' tab is active. The main heading is 'Export badges previously created in Moodle'. Below it is a section 'Select badges you want to export to Open Badge Factory' with a dropdown arrow. Under this section, there is a checkbox next to a gear icon and the text 'Communicant'. Below the checkbox is a link 'Select all/none'. A light blue message box states: 'A copy of all selected badges will be made on Open Badge Factory.' Below this is another section 'Export settings' with a dropdown arrow. It contains two checkboxes: 'Allow Moodle's own badge-module. WARNING: ALLOWING MOODLE'S OWN MODULE WILL CAUSE CONFLICT' and 'Display Moodle badges on profiles' with a help icon. At the bottom is a blue 'Continue' button.

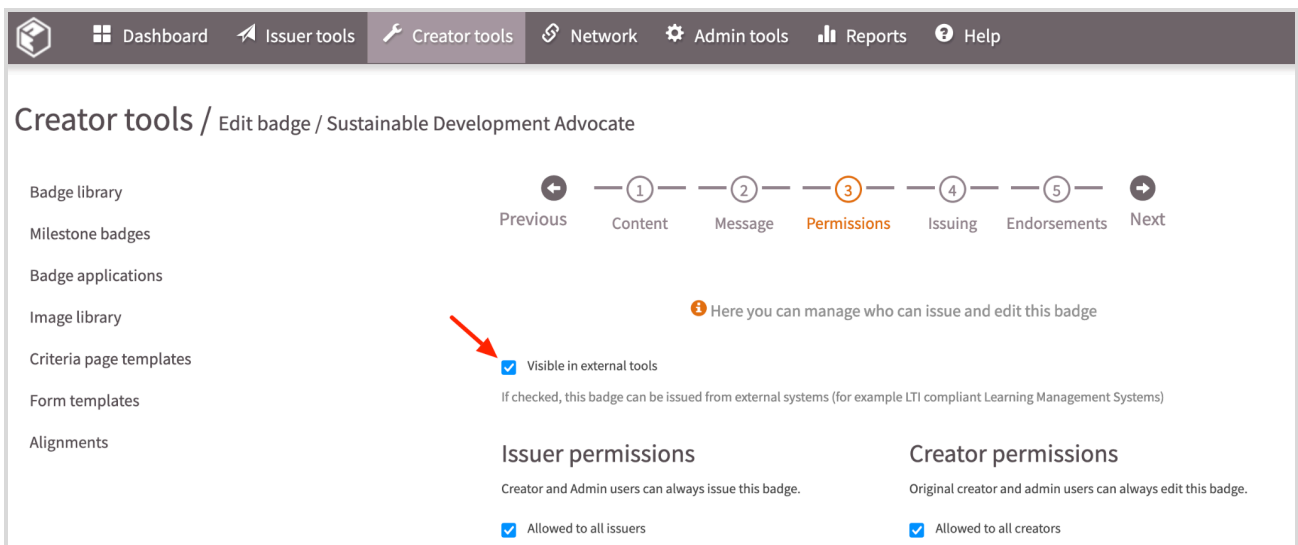
Select the Moodle badges you want to export to Open Badge Factory. You can also disable Moodle's badges module and/or disable the displaying of Moodle badges on profiles.

2.6. Badge list

Now the badges from OBF are visible in **Site administration** → **Open Badges** → **Badge list**



Tip: badges can be excluded from this view, by unchecking the box **“Visible in external tools”** from your badge permissions in OBF > **Creator tools** > select your badge > **Permissions**:



By clicking the badge you can view its details, issue the badge to users, add awarding rules. You can also, edit the email template used when issuing the badge, and access the awarding history:


obfpartners
Home
Dashboard
My courses
Site administration

Open Badges / Badge list / Initiation aux enjeux d'inclusion dans la langue française

General
Users
Courses
Grades
Plugins
Appearance
Server
Reports
Development

Initiation aux enjeux d'inclusion dans la langue française

Badge details
Awarding rules
Email template
Awarding history



Badge details

Name Initiation aux enjeux d'inclusion dans la langue française

Description Un badge de savoir qui reconnaît l'initiation aux enjeux de la communication inclusive.

Created on 2021-09-13

Tags communication, inclusion, langage

Criteria Comment ne pas exclure d'une activité ou d'une pratique culturelle dès la communication sur un événement ? Comment s'assurer que les manuels culturels qui se réclament "tous publics" ne se contredisent pas dès la communication et leurs premiers écrits ? Comment faire en sorte que d'ici, dès la première affiche vue, dès la première conversation, chaque personne se sente réellement bienvenue ?

Ce badge reconnaît que la personne bénéficiaire connaît des éléments de l'histoire de la langue française du point de vue du genre. Elle a pris l'invisibilisation volontaire des femmes dans la sphère publique à travers des usages linguistiques imposés et conscients au cours des XVIII et reconnaît que la personne bénéficiaire est initiée aux enjeux de la communication inclusive.

Issuer details

Name OBF Training Academy

URL <https://openbadgefactory.com/fr/>

Description OBF Training Academy est l'environnement de formation Open Badge Factory. Les badges créés dans cet environnement sont des badges image ateliers / formations. Plus d'information sur Open Badge Factory : [<https://openbadgefactory.com/fr/>][<https://openbadgefactory.com/fr/>]

Email contact@companyname.com

Issue badge

2.7. Set displayer badge source

By default, the Open Badge Passport displayer will be configured:

Open Badges / Displayer badge source

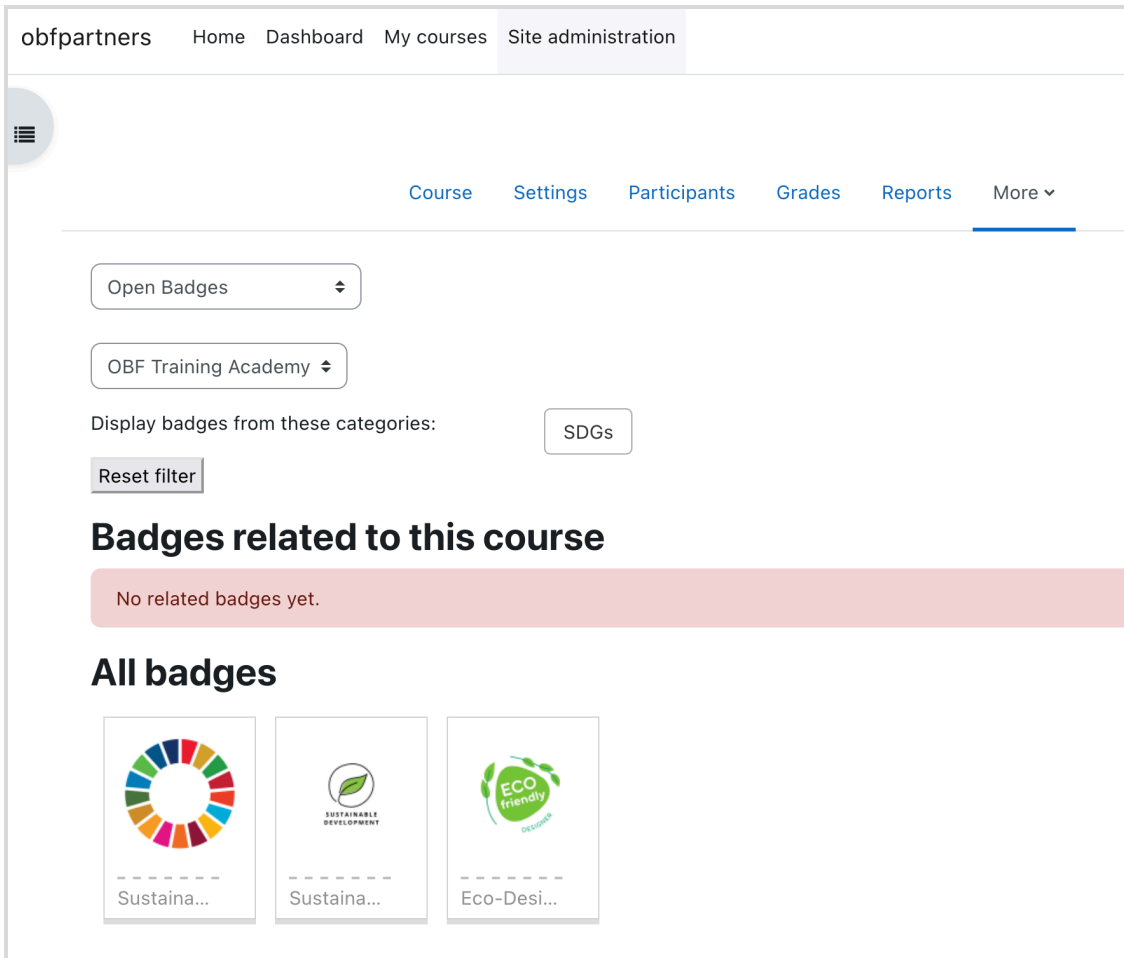
General
Users
Courses
Grades
Plugins
Appearance
Server
Reports
Development

Displayer badge source

Short name	Full name	URL	User can define the email-address	Actions
obp	Open Badge Passport	https://openbadgepassport.com/displayer/	Yes	Edit

3. Usage

If you are in a teacher role in Moodle you can manage the badges of your course by first choosing a course (where you are in a teacher role) and going to Course → **Course administration** → **Open badges**. Here you can see a similar view which can be seen in site administration, see badges that are related to course and create new awarding rules.



obfpartners Home Dashboard My courses Site administration

Course Settings Participants Grades Reports More ▾

Open Badges ▾

OBF Training Academy ▾

Display badges from these categories:


SDGs

Reset filter


Badges related to this course

No related badges yet.


All badges



Sustaina...



Sustaina...




Eco-Desi...

By clicking the badge you can see the badge details. In a course badge view a teacher can edit only those awarding rules which apply to the chosen course. Note that if a badge has awarding rules which apply to several courses, including the chosen course, an awarding rule cannot be added or edited within the chosen course. Also, if a badge has been issued at least once according to a certain rule, the rule cannot be edited anymore.


3.1. Issuing a badge to course participants

By clicking "Issue badge" you can issue the selected badge:

Course
Settings
Participants
Grades
Reports
More ▼


Sustainable Development Goals (SDGs) Engagement Badge

Badge details
Awarding rules



Badge details

Name Sustainable Development Goals (SDGs) Engagement Badge

Description This Sustainable Development Goals (SDGs) Engagement Badge is awarded to individuals and organizations who have demonstrated outstanding achievement of the United Nations' 17 SDGs. Recipients of this badge have made significant contributions to promoting sustainable development, protecting the environment, combating poverty, and working towards a better future for all.

Created on 2023-07-21

Tags sdg, sustainability

Criteria To be eligible for this badge, candidates must meet the following criteria:

Commitment to SDGs: Candidates must show active engagement in working towards the achievement of the 17 SDGs, through concrete action goals in their community, region, or on a global scale.

Positive Impact: Candidates should have demonstrated measurable positive impact in at least one area of the SDGs. This may include contributing to poverty eradication, access to education, gender equality promotion, environmental protection, health promotion, etc.

Sustainability: Actions undertaken by candidates must demonstrate a sustainable and environmentally conscious approach, in line with the principles of sustainable development.

Innovation: Candidates who have adopted innovative and creative approaches to addressing SDG-related challenges will be highly valued.

Sharing and Awareness: Candidates must have contributed to disseminating knowledge and raising awareness about the SDGs, inspiring others to join the cause.

Collaboration: Candidates who have collaborated with other stakeholders, such as organizations, local governments, or businesses, to implement projects will also be considered favorably.

Validation: The awarding of this badge will be carried out by an evaluation committee comprising experts in sustainable development and the SDGs. Candidates must submit a comprehensive portfolio detailing their actions and impact, along with testimonials from third parties confirming their commitment and achievements.

Issuer details

Name OBF Training Academy

URL <https://openbadgefactory.com/fr>

Description OBF Training Academy est l'environnement de formation Open Badge Factory. Les badges créés dans cet environnement sont des badges imaginaires / formations. Plus d'information sur Open Badge Factory : <https://openbadgefactory.com/fr/> (<https://openbadgefactory.com/fr/>)

Email contact@companyname.com

Issue badge

You can select recipients out of all the users registered to the course. You can edit the email message which will be sent to the recipients of the badge and add criteria addendum specific to this course. And click **Issue badge** to confirm the badge issuing.

Course

Settings

Participants

Grades


Reports

More ▾

Expand all

▼ Badge details

Name

 Sustainable Development Goals (SDGs) Engagement Badge

Description


This Sustainable Development Goals (SDGs) Engagement Badge is awarded to individuals and organizations who have demonstrated outstanding commitment to achieving the United Nations' 17 SDGs. Recipients of this badge have made significant contributions to promoting sustainable development, protecting the environment, combating poverty, and working towards a better future for all.

Issued on

26 ▾

September ▾

2023 ▾




Expires

☐ Enable


26 ▾

September ▾

2023 ▾



▼ Select recipients

Select recipients 

Users matching the search (4)

Odile Besson (anstia-teacher4@mailinator.com)

Gerald Billeras (anstia-teacher11@mailinator.com)

Alexandra Codina (anstia-teacher13@mailinator.com)

Bertille Collignon (anstia-teacher10@mailinator.com)

Search

Clear

Search options ▾

☐ Keep selected users, even if they no longer match the search

☐ If only one user matches the search, select them automatically


☐ Match the search text anywhere in the displayed fields

› Edit email message

› Criteria addendum

Issue badge


Cancel

 Required

3.2. Create badge awarding rules

On the **Awarding rules** tab an administrator can create specific issuing rules:

[Course](#)
[Settings](#)
[Participants](#)
[Grades](#)
[Reports](#)
[More ▾](#)



Sustainable Development Goals (SDGs) Engagement Badge

[Badge details](#)
[Awarding rules](#)

Select the method, by which the badge is earned.

Select...

✓ Select...

Course completion
Activity completion
Profile completion

First choose if you wish to issue based on course completion, activity completion or profile completion.

If the option “**Review rule after saving**” is selected, the system checks if there are already completions in the system that correspond to the awarding rule. If these are found the badge is issued to the users automatically.

Note! If a badge is issued according to this review, the rule cannot be edited anymore. Make sure the rule is created correctly. A rule cannot be edited but it can be deleted if needed.


Review rule after saving

Note that if the badge is awarded when these rules are being reviewed, the rule(s) cannot be edited anymore. Once the badge has been automatically awarded to at least one person, editing of the rules is prohibited. So make sure the rules are set correctly before reviewing.

☐ Review rule after saving

Issuing a badge automatically on activity completion

You can define what activities need to be achieved to get the badge ([documentation on activity completion in Moodle](#)):


Sustainable Development Goals (SDGs) Engagement Badge

Badge details
Awarding rules

Select activity

Section 0

☐ Forum - Forum D'échanges Des Groupes Projets

☐ Choice - Sondage Webconférence Démarrage Du Module - Séquence 1

☐ Url - Espaces Collaboratifs Et WP Groupes (Enseignants)

Introduction module et lancement des projets de groupe

☐ Label - Étiquette

☐ Page - Grille D'évaluation Du Module

☐ Choicegroup - Constitution Des Groupes Projets

☐ Page - Choix De L'auteur

Mise en place de l'espace collaboratif et première maquette web

☐ Url - Travailler En Équipe : Ressources Et Outils Pour Une Expérience Réussie!

☐ Page - Construire Un Projet Collaboratif : Démarche Et Outils

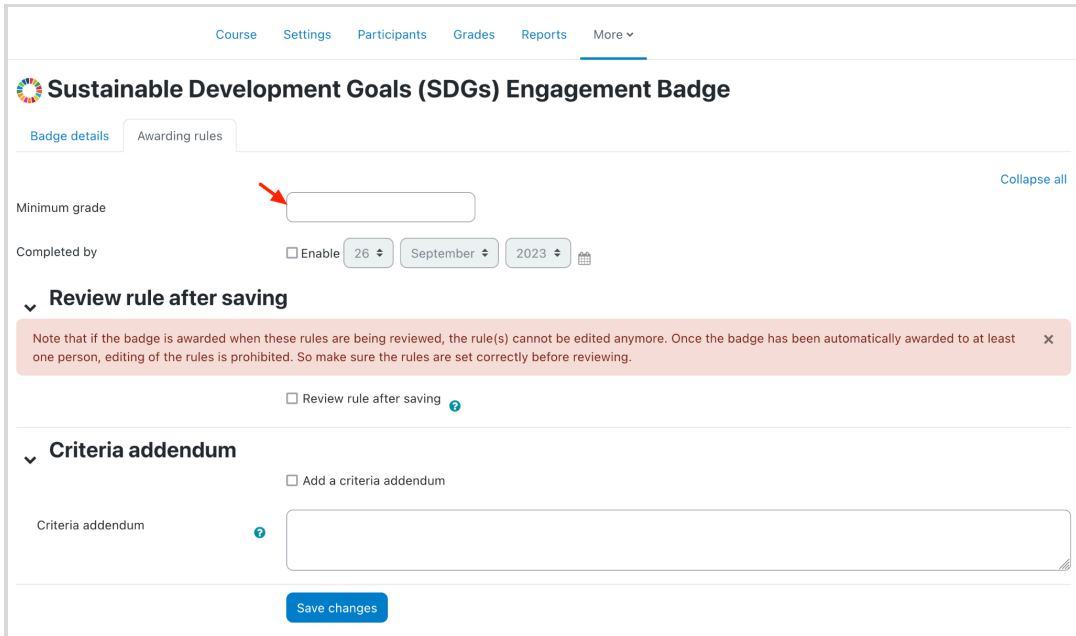
Review rule after saving

Criteria addendum

Save changes

Issuing a badge automatically on course completion

You can define a minimum grade for the selected course and the last possible completion day in order for the completion to be accepted according to the rule:




The screenshot shows the 'Awarding rules' tab for the 'Sustainable Development Goals (SDGs) Engagement Badge'. The interface includes a navigation bar with links to Course, Settings, Participants, Grades, Reports, and More. The 'Awarding rules' section contains a 'Minimum grade' input field, which is highlighted with a red arrow. Below this is a 'Completed by' section with an 'Enable' checkbox and three date pickers set to '26', 'September', and '2023'. A 'Review rule after saving' section contains a warning message and a checkbox. The 'Criteria addendum' section has an 'Add a criteria addendum' checkbox and a text area. A 'Save changes' button is at the bottom.

Course Settings Participants Grades Reports More ▾

Sustainable Development Goals (SDGs) Engagement Badge


Badge details Awarding rules

Minimum grade

Completed by ☐ Enable 26 ▾ September ▾ 2023 ▾ 


▼ Review rule after saving

Note that if the badge is awarded when these rules are being reviewed, the rule(s) cannot be edited anymore. Once the badge has been automatically awarded to at least one person, editing of the rules is prohibited. So make sure the rules are set correctly before reviewing. ✕

☐ Review rule after saving 

▼ Criteria addendum

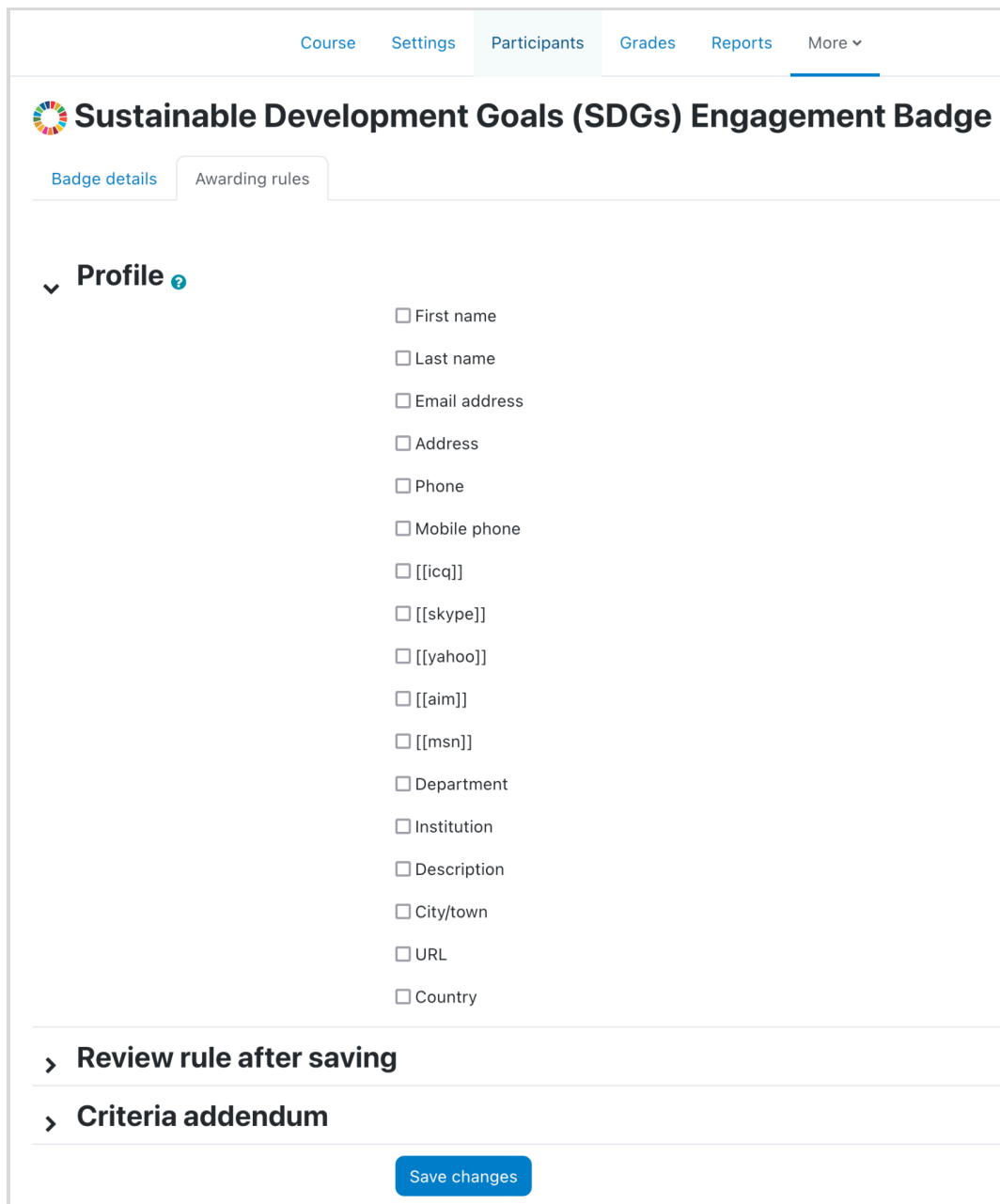
☐ Add a criteria addendum

Criteria addendum 

Save changes

Issuing a badge automatically on profile completion

You can also define what user profile fields need to be completed to get the badge:



Course Settings **Participants** Grades Reports More ▾

Sustainable Development Goals (SDGs) Engagement Badge

Badge details **Awarding rules**

▼ **Profile** ⓘ

- ☐ First name
- ☐ Last name
- ☐ Email address
- ☐ Address
- ☐ Phone
- ☐ Mobile phone
- ☐ [[icq]]
- ☐ [[skype]]
- ☐ [[yahoo]]
- ☐ [[aim]]
- ☐ [[msn]]
- ☐ Department
- ☐ Institution
- ☐ Description
- ☐ City/town
- ☐ URL
- ☐ Country

› **Review rule after saving**

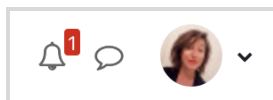
› **Criteria addendum**

Save changes

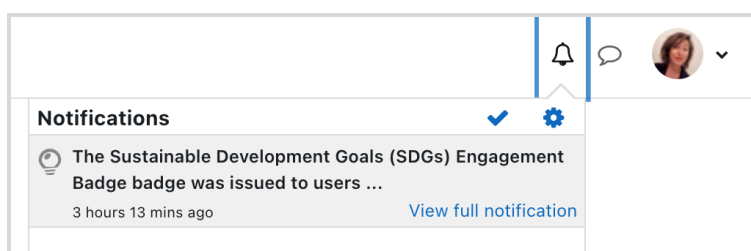
After the rule has been saved it can be seen on the Awarding rules tab in the badge's details.

3.3. Notifications

Notifications alert teachers, students and other users about events in Moodle. New notifications are highlighted with a number in the notifications menu at the top of the screen:



Clicking there displays any new notifications, along with the option to mark all as read, or to go to the notifications preferences page to change how notifications are received.



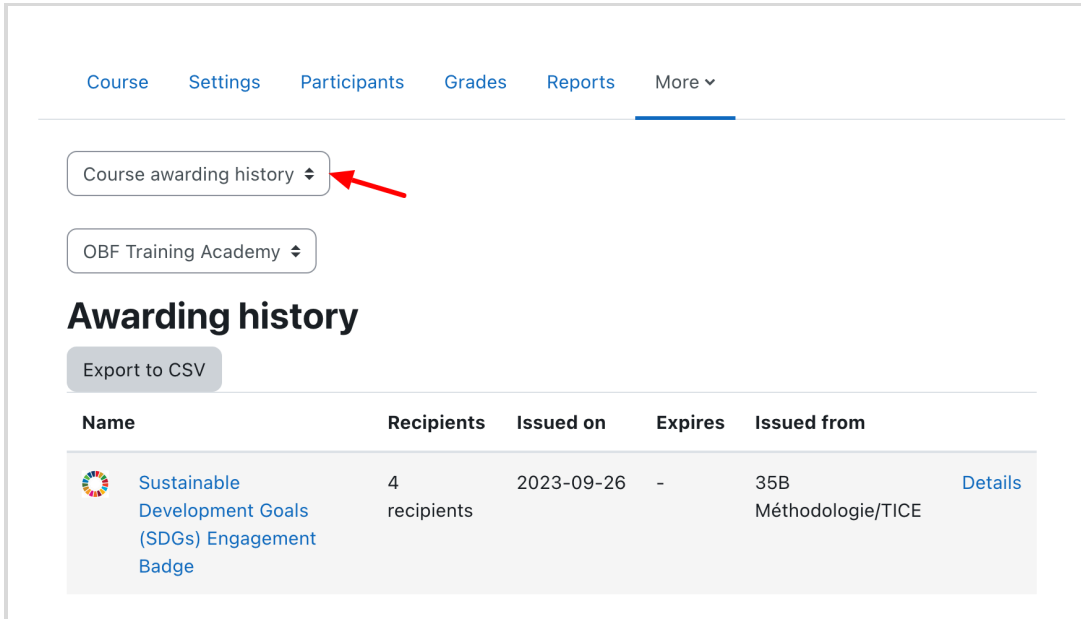
From the notifications preferences page, students can enable/disable internal notifications for new issued badges or revoked badges (no email notifications since emails are sent by Open Badge Factory). And teachers can be notified when a badge is issued / revoked to students in their course:

Open Badge Factory		
Issued badge is revoked	<input checked="" type="checkbox"/>	Locked off
New badge is issued	<input checked="" type="checkbox"/>	Locked off
New badge is issued to a student	<input checked="" type="checkbox"/>	Locked off
A student's badge has been revoked	<input checked="" type="checkbox"/>	Locked off

3.4. Awarding history

Once the badge has been issued to someone, the issuing event can be seen on the **Course awarding history** tab. You can access the issuing details and export your report in a CSV file.

Once the badge has been issued to someone, the issuing event can be seen on the **Course awarding history** tab. You can access the issuing details and export your report in a CSV file.




Course Settings Participants Grades Reports More ▾

Course awarding history ▾

OBF Training Academy ▾

Awarding history

Export to CSV

Name	Recipients	Issued on	Expires	Issued from	
 Sustainable Development Goals (SDGs) Engagement Badge	4 recipients	2023-09-26	-	35B Méthodologie/TICE	Details

3.5. Revoking a badge

Revoking a badge typically refers to the action of taking away or removing a badge that was previously awarded to an individual. There can be several reasons for revoking a badge: administrative error, Misrepresentation, Violation of Terms etc.).

From the awarding history view, click on **Revoke user badges**.

Issuance details



Badge details

Name

Sustainable Development Goals (SDGs) Engagement Badge

Description

This Sustainable Development Goals (SDGs) Engagement Badge is awarded to individuals and organizations who have demonstrated outstanding commitment to achieving the United Nations' 17 SDGs. Recipients of this badge have made significant contributions to promoting sustainable development, protecting the environment, combating poverty, and working towards a better future for all.

Issued on

2023-09-26

Expires by

Recipients







[Revoke user badges](#)



Select the individuals to whom you want to revoke the badge and click **Revoke**:

Recipients

- ☐ 
- ☐ 
- ☐ 
- ☐ 

[Select all/none](#)

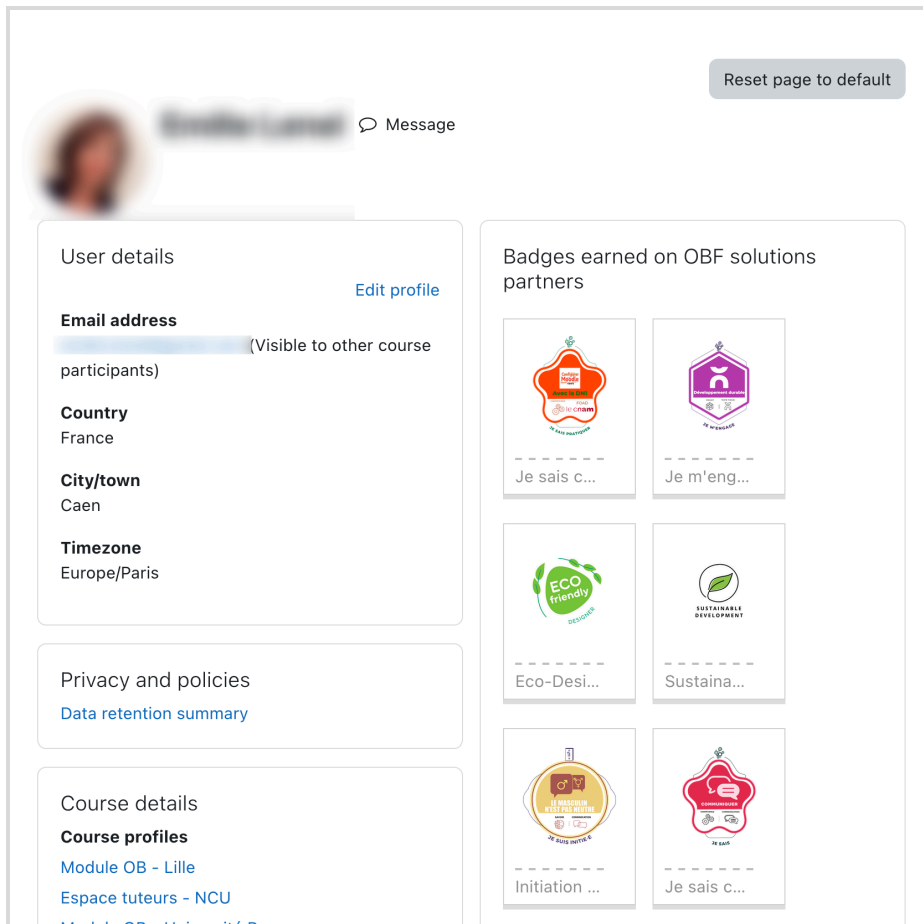


Revoke

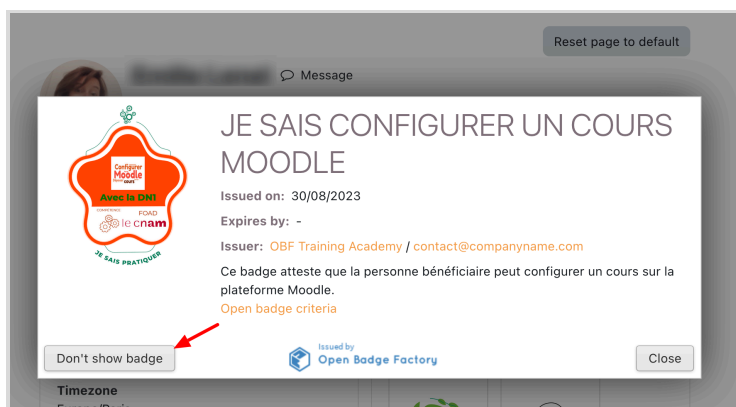
4. Displaying badge on user profiles

4.1. OBF badges issued in Moodle

If you allowed badges to be displayed on profile pages (refer to [2.4](#)), then all OBF badges issued in your Moodle site will be visible on user profile pages:



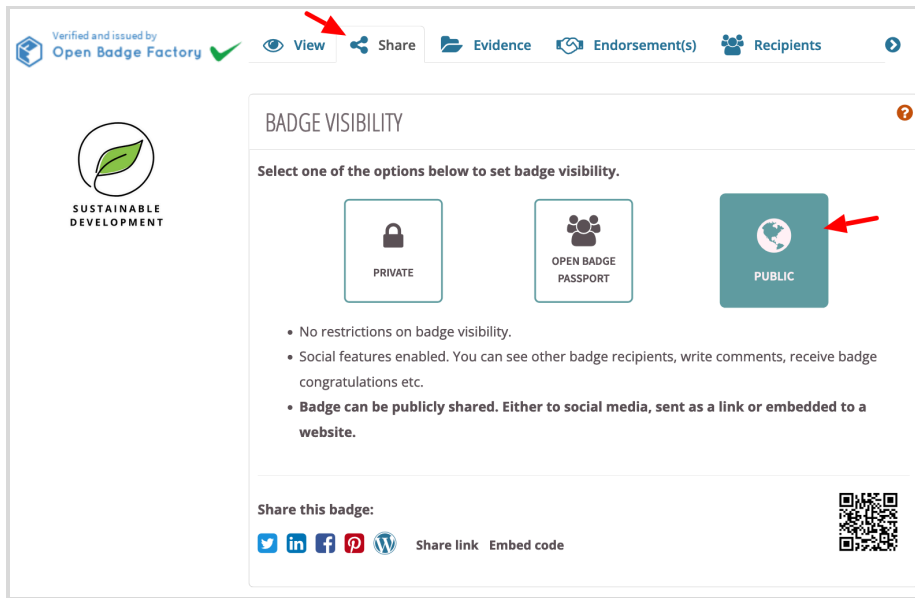
However, users can decide to hide part of their badges:



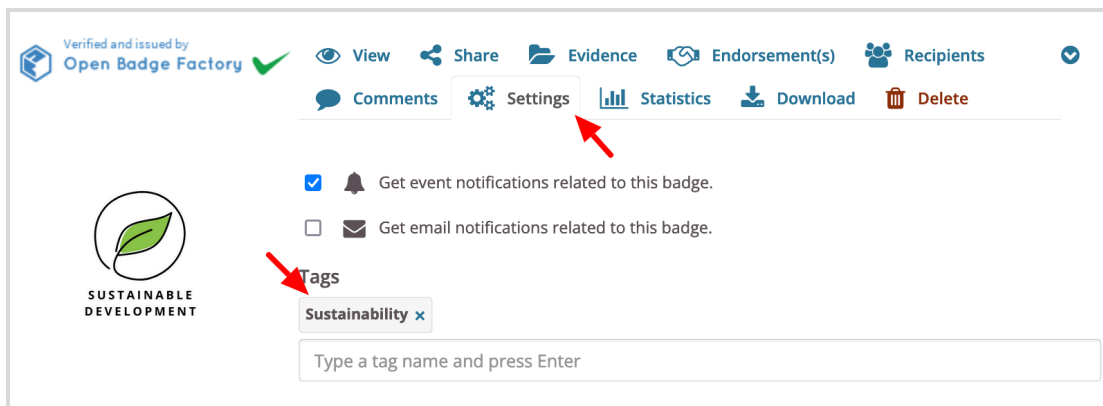
4.2. Open badge passport badges

[Open Badge Passport](#) is a free, easy to use service, where users can receive and store their Open Badges safely and share them with whomever they like and wherever they like.

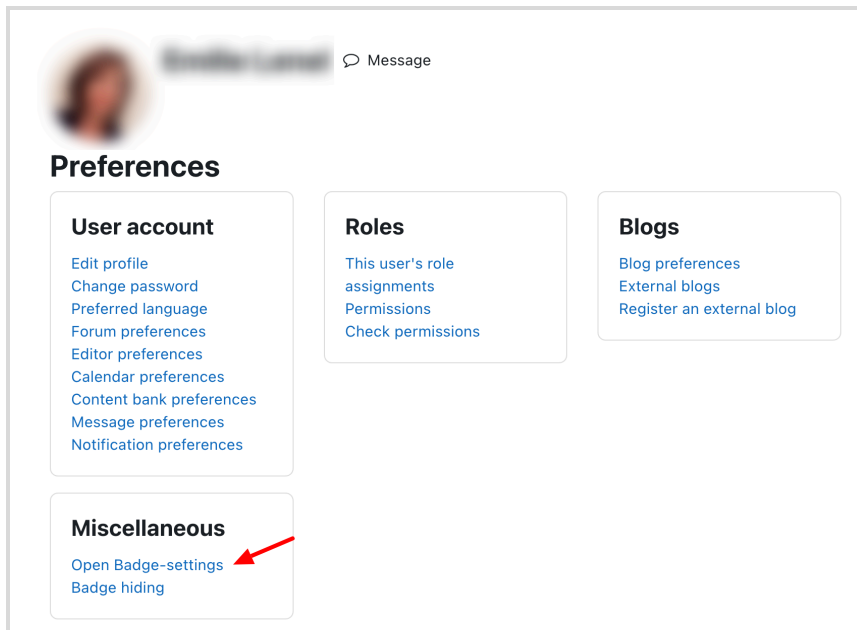
Within Open Badge Passport, users can set their badge visibility as public:



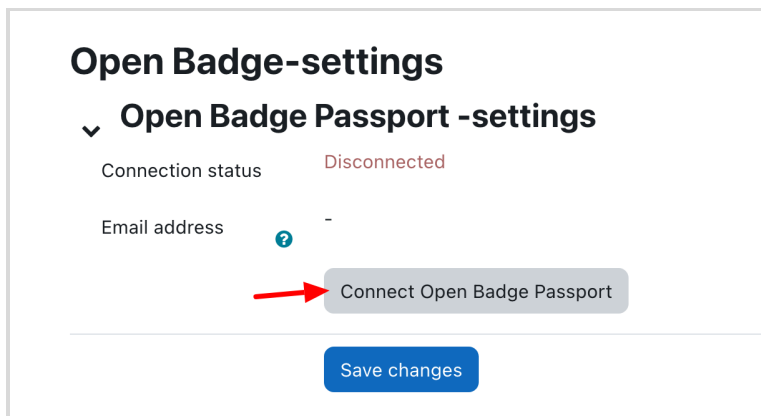
And organise their badges with tags:



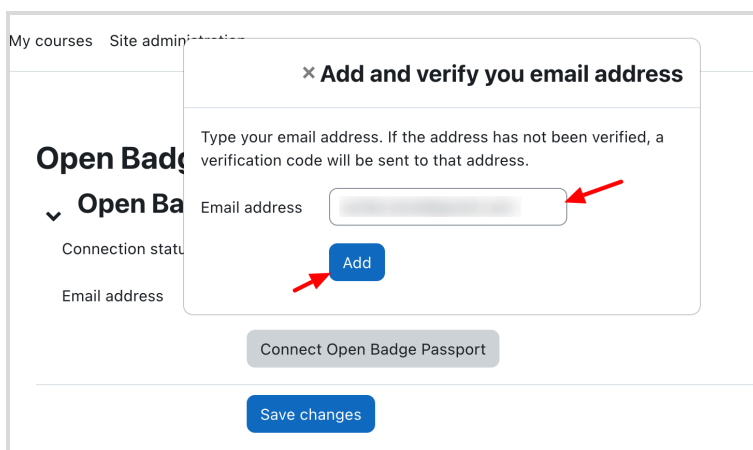
Users having an Open Badge Passport account can also display their badges on their Moodle profile. From their preferences > **Open Badge settings**:



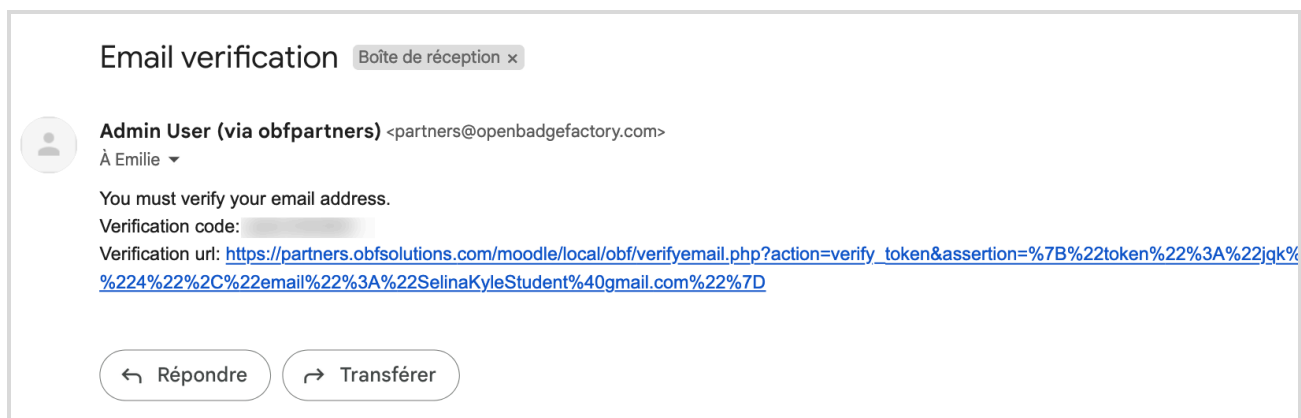
They can connect to their Open Badge Passport:



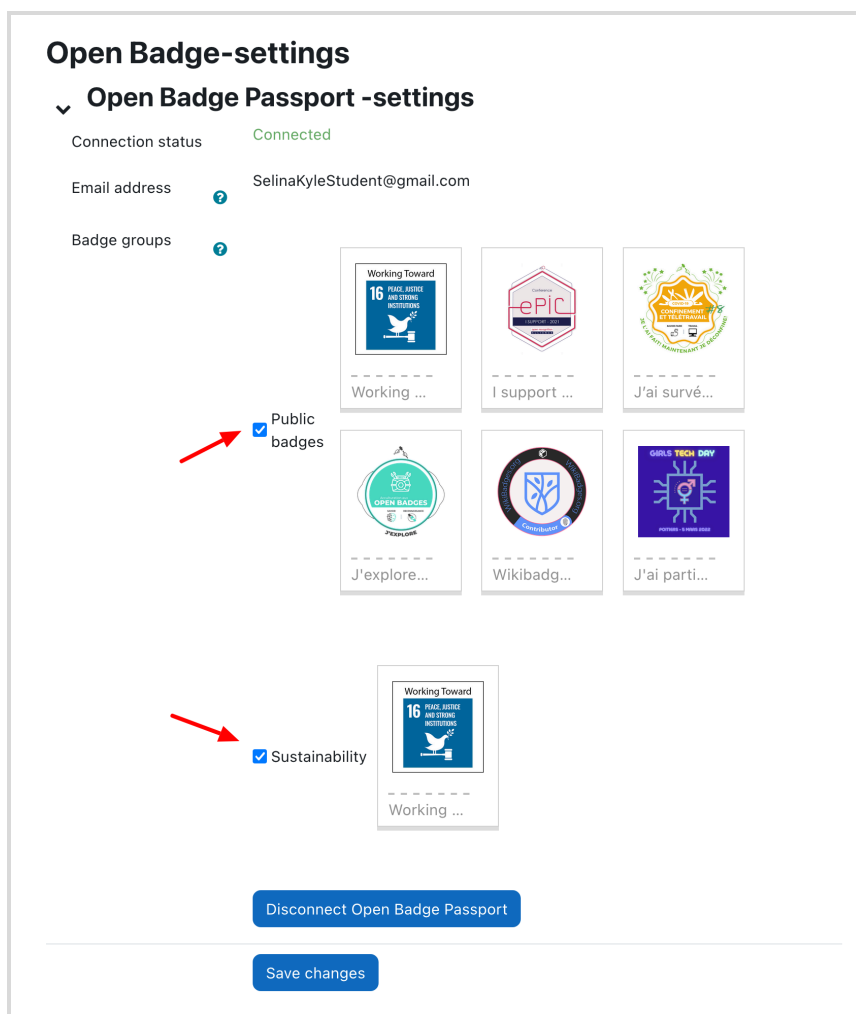
The user must provide their Open Badge Passport email address and add a connection.

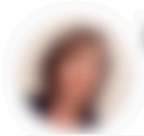


A verification email will be sent to the provided address:



Once the Open Badge Passport is connected, the user can define what badge groups to make visible on his profile (can be all public badges, or tagged badges):




Message

Reset page to default

User details

[Edit profile](#)

Email address
(Visible to other course participants)

Country
France

City/town
Caen

Timezone
Europe/Paris

Privacy and policies

[Data retention summary](#)

Course details

Course profiles

[Module OB - Lille](#)

[Espace tuteurs - NCU](#)

[Module OB - Université Rouen](#)

[Les open badges - module 102](#)

[Module OB - Universités Caen et Le Havre](#)

[Les Open badges - Module 101](#)

[Moodle vs OBF open badges](#)

[Espace open badges](#)

[35B Méthodologie/TICE](#)

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[Today's logs](#)


Mobile app

QR code for mobile app access
For security reasons login via QR code is not allowed for site administrators or if you are logged in as another user.


This site has mobile app access enabled.
[Download the mobile app.](#)

Badges


Open Badge Passport badges




Working ...




I support ...




J'ai survé...



J'explore...




Wikibadg...




J'ai parti...

Badges earned on OBF solutions partners



Je sais c...



Je m'eng...