

Learnvelo LTI 1.3 Setup Guide for Moodle

This guide walks LMS administrators through connecting Learnvelo to Moodle using LTI 1.3. After completing these steps, instructors will be able to add Learnvelo content directly into their Moodle courses.

Prerequisites

- Moodle site administrator access
- Moodle 3.10 or later (LTI 1.3 support)
- A Learnvelo account with the **LMS Admin** role. If you don't have one, sign up at app.learnvelo.com/signup and select **LMS Admin** as your role during registration – no approval from Learnvelo is needed to create an account.

Overview

Setting up the integration requires configuring both Learnvelo and Moodle. You will switch between the two systems during this process:

1. Register your institution in Learnvelo
2. Create an LTI platform in Learnvelo and copy the tool configuration URLs
3. Register Learnvelo as an external tool in Moodle
4. Enter the Moodle-provided configuration values back in Learnvelo
5. Test the connection

Step 1: Register Your Institution in Learnvelo

If your institution is not yet registered in Learnvelo, you will need to register it first.

1. Log in to Learnvelo at app.learnvelo.com
2. Navigate to **My Institutions** from the dashboard menu
3. Click **Register Institution**
4. Fill in the required fields:
 - **Institution Name** – Your institution's official name
 - **Website** – Your institution's website URL
 - **Primary Contact Name** – The person managing the LTI integration
 - **Contact Title** – Their role (e.g., "Director of Educational Technology")
5. Click **Submit Registration**



My Institutions > Register Institution

Register Institution

Once submitted, your institution will be reviewed by the Learnvelo team. You can configure LTI platforms while the review is in progress.

Institution Name *
Test Institution

Website *
https://testinstitution.edu

Primary Contact Name *
John Smith

Contact Title *
Director of Educational Technology

Description
Test institution for documentation screenshots.

Submit Registration

Learnvelo institution registration form

Note: Your institution will be reviewed by the Learnvelo team. You can proceed with the LTI configuration while the review is in progress, but LTI launches will not work until approval is granted.

Step 2: Create an LTI Platform in Learnvelo

1. From your institution's detail page, go to the **Integrations** tab
2. Click **Add Integration**
3. In the dialog, enter:
 - **Platform Name** – A descriptive name (e.g., “Moodle Production”)
 - **LMS Type** – Select **Moodle**
 - **Environment** – Select **Production** (or Staging/Development for testing)
4. Click **Create Integration**

You will be redirected to the platform detail page.

Step 3: Copy Tool Configuration URLs from Learnvelo

On the platform detail page, locate the **Tool Configuration** section. You will need these URLs when configuring Moodle:

Field	URL
Login Initiation URL	<code>https://api.learnvelo.com/api/lti/login/</code>
Launch / Redirect URL	<code>https://api.learnvelo.com/api/lti/launch/</code>
Deep Linking URL	<code>https://api.learnvelo.com/api/lti/launch/</code>
JWKS URL	<code>https://api.learnvelo.com/api/lti/jwks/{platform-id}/</code>

Important: The JWKS URL is unique to your platform. Use the copy button next to each field to ensure accuracy.

The screenshot shows two sections of the Learnvelo interface. The top section, titled "Tool Configuration", contains four input fields with their respective URLs and copy icons: Login Initiation URL (https://api.learnvelo.com/api/lti/login/), Launch / Redirect URL (https://api.learnvelo.com/api/lti/launch/), Deep Linking URL (https://api.learnvelo.com/api/lti/launch/), and JWKS URL (https://api.learnvelo.com/api/lti/jwks/9cb1dce1-786d-4f79-852d-9771144a8e2e/). The bottom section, titled "Platform Registration Details", contains five input fields: Issuer URL, Client ID, OIDC Authorization Endpoint, Your LMS JWKS URL (with a "Verify JWKS" button), and OAuth 2.0 Token Endpoint. A "Save" button is located at the bottom left of the second section.

Learnvelo tool configuration URLs

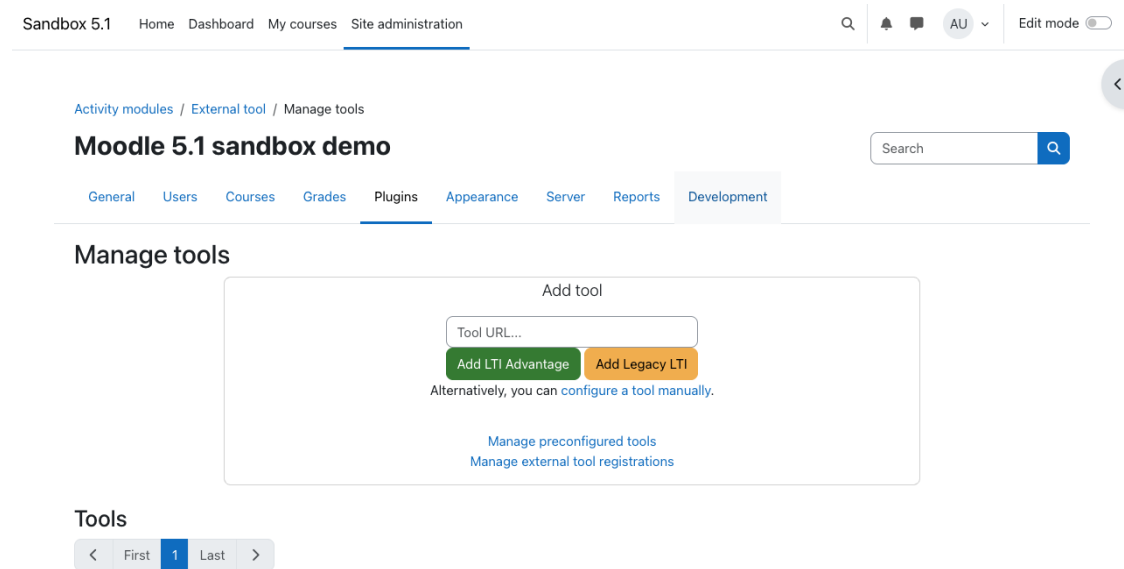
Keep this Learnvelo tab open – you will return to it after configuring Moodle.

Step 4: Register Learnvelo as an External Tool in Moodle

Now switch to your Moodle admin panel.

4a. Open External Tool Configuration

1. Go to **Site Administration > Plugins > Activity Modules > External Tool**
2. Click **Manage Tools**
3. Click **Configure a Tool Manually**



The screenshot shows the Moodle 5.1 Site Administration interface. The breadcrumb trail is 'Activity modules / External tool / Manage tools'. The page title is 'Moodle 5.1 sandbox demo'. The 'Plugins' tab is selected in the top navigation bar. The 'Manage tools' section contains an 'Add tool' form with a 'Tool URL...' input field, 'Add LTI Advantage' and 'Add Legacy LTI' buttons, and a link to 'Configure a tool manually'. Below the form are links for 'Manage preconfigured tools' and 'Manage external tool registrations'. At the bottom, there is a 'Tools' section with a pagination control showing '1' of 1 items.

Moodle Manage Tools page

4b. Enter Tool Settings

Fill in the following fields:

Moodle Field	Value
Tool name	Learnvelo
Tool URL	https://api.learnvelo.com/api/lti/launch/
LTI version	LTI 1.3
Public keyset URL	Paste the JWKS URL from Learnvelo
Initiate login URL	https://api.learnvelo.com/api/lti/login/
Redirection URI(s)	https://api.learnvelo.com/api/lti/launch/

4c. Configure Services (Optional)

Under **Services**:

- **IMS LTI Assignment and Grade Services** – Set to “Use this service for grade sync and column management” if you want grade passback from Learnvelo activities
- **IMS LTI Names and Role Provisioning** – Set to “Use this service to retrieve members’ information as per privacy settings” if desired

4d. Configure Tool Visibility

Under **Tool configuration usage**, select “**Show in activity chooser and as a preconfigured tool**”. This makes Learnvelo appear directly in the activity chooser when instructors add content to their course, rather than requiring them to first select “External tool” and then find Learnvelo in a dropdown.

4e. Configure Privacy Settings

Under **Privacy**:

- **Share launcher’s name with tool** – Recommended: **Always**
- **Share launcher’s email with tool** – Recommended: **Always**

Note: Sharing email allows Learnvelo to match LTI users with existing Learnvelo accounts, providing a seamless experience. Sharing name ensures student and instructor names display correctly in Learnvelo.

The screenshot shows the Moodle Site Administration interface for configuring a tool's privacy settings. The breadcrumb trail is "Sandbox 5.1 > Home > Dashboard > My courses > Site administration". The top right contains a search icon, notification bell, user profile (AU), and an "Edit mode" toggle.

The main content area is titled "Content Selection URL" with an empty input field and a "Show more..." link. Below this are expandable sections:

- Restrict to category** (expanded)
- Services** (expanded)
- Privacy** (expanded)
 - Share launcher's name with tool: Always (dropdown)
 - Share launcher's email with tool: Always (dropdown)
 - Accept grades from the tool: As specified in Deep Linking definition or Delegate to teacher (dropdown)
 - Force SSL:
- Miscellaneous** (expanded)
 - Default organisation ID: Site ID (dropdown)
 - Organisation ID: [empty input field]
 - Organisation URL: [empty input field]

At the bottom of the form are "Save changes" and "Cancel" buttons. A legend at the bottom left indicates that a red dot icon means "Required".

Moodle Privacy settings

4f. Save the Tool

1. Click **Save changes**
2. Moodle will now display the tool in the list with a **Client ID** and configuration details

The screenshot shows the Moodle administration interface for an external tool configuration. The breadcrumb trail is 'Activity modules / External tool / Manage tools / External tool configuration'. The page title is 'Moodle 5.1 sandbox demo'. The navigation menu includes 'General', 'Users', 'Courses', 'Grades', 'Plugins', 'Appearance', 'Server', 'Reports', and 'Development'. The main heading is 'External tool configuration' with an 'Expand all' link. Under 'Tool settings', the following fields are visible:

Tool name	Learnvelo
Tool URL	https://api.learnvelo.com/api/lti/launch/
Tool description	
LTI version	LTI 1.3
Public key type	Keyset URL
Public keyset	https://api.learnvelo.com/api/lti/jwks/1d835e56-3ab2-4603-881c-442c2c9e
Initiate login URL	https://api.learnvelo.com/api/lti/login/
Redirection URI(s)	https://api.learnvelo.com/api/lti/launch/

Moodle external tool configuration

4g. View the Tool Configuration Details

Click the tool name or the details icon to view:

- **Client ID** – Copy this value
- **Platform ID (Issuer)** – Your Moodle site URL (e.g., `https://moodle.yourschool.edu`)
- **Authorization endpoint** – Usually `https://{your-moodle-domain}/mod/lti/auth.php`
- **Public keyset URL** – Usually `https://{your-moodle-domain}/mod/lti/certs.php`
- **Access token URL** – Usually `https://{your-moodle-domain}/mod/lti/token.php`

Moodle 5.1 sandbox demo

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

External tool configuration

[Expand all](#)

Tool settings

Tool name	<input type="text" value="Learnvelo"/>
Tool URL	<input type="text" value="https://api.learnvelo.com/api/lti/launch/"/>
Tool description	<input type="text"/>
LTI version	<input type="text" value="LTI 1.3"/>
Client ID	<input type="text" value="PSp7mypoUyTs8sF"/>
Public key type	<input type="text" value="Keyset URL"/>
Public keyset	<input type="text" value="https://api.learnvelo.com/api/lti/jwks/1d835e56-3ab2-4603-881c-442c2c9f"/>
Initiate login URL	<input type="text" value="https://api.learnvelo.com/api/lti/login/"/>

Moodle tool configuration details

Step 5: Enter Moodle Configuration in Learnvelo

Switch back to your Learnvelo tab.

1. On the platform detail page, locate the **Platform Registration Details** section
2. Enter the following values:

Learnvelo Field	Value
Issuer URL	Your Moodle site URL (e.g., <code>https://moodle.yourschool.edu</code>)
Client ID	The Client ID from Moodle (Step 4f)
OIDC Authorization Endpoint	<code>https://{your-moodle-domain}/mod/lti/auth.php</code>
Your LMS JWKS URL	<code>https://{your-moodle-domain}/mod/lti/certs.php</code>
OAuth 2.0 Token Endpoint	<code>https://{your-moodle-domain}/mod/lti/token.php</code>

3. Click **Verify JWKS** to test that Learnvelo can reach Moodle's public keys
4. Click **Save**

Tip: The Platform Registration Details form is on the Learnvelo platform detail page. The fields and their values are listed in the table above.

Step 6: Add the Deployment ID

Moodle automatically generates a Deployment ID when you save the tool configuration.

1. In Moodle, return to the tool configuration details
2. Find the **Deployment ID** value
3. In Learnvelo, scroll to the **Deployment IDs** section on the platform detail page
4. Enter the Deployment ID from Moodle
5. Optionally add a label (e.g., “Main Site”)
6. Click **Add**

The screenshot shows the 'Platform Registration Details' form in Learnvelo. At the top, there is a JWKS URL field containing 'https://api.learnvelo.com/api/iti/jwks/9cb1dce1-786d-4f79-852d-9771144a8e2e/'. Below this is the 'Platform Registration Details' section with the instruction 'Enter the values provided by your LMS after completing registration.' It contains five input fields: 'Issuer URL', 'Client ID', 'OIDC Authorization Endpoint', 'Your LMS JWKS URL' (with a 'Verify JWKS' button), and 'OAuth 2.0 Token Endpoint'. A 'Save' button is located below these fields. Below the 'Save' button is the 'Deployment IDs' section with the instruction 'No deployment IDs yet. Add one from your LMS configuration.' It contains three input fields: 'Deployment ID', 'Label (optional)', and an 'Add' button.

Learnvelo Deployment IDs section

Step 7: Test the Connection

The Getting Started checklist on the platform detail page tracks your progress. Once all four steps are complete, your integration is ready.

To verify the connection end-to-end:

1. In Moodle, navigate to any course as an instructor
 2. Turn editing on
 3. Click **Add an activity or resource**
 4. Select **External tool**
 5. Under **Preconfigured tool**, select **Learnvelo**
 6. The Learnvelo content picker should load, confirming the connection works
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Troubleshooting

“JWKS verification failed”

- Ensure the **LMS JWKS URL** field in Learnvelo contains your Moodle JWKS URL (`https://{your-moodle-domain}/mod/lti/certs.php`), not Learnvelo’s JWKS URL
- If your Moodle instance is behind a firewall, ensure the `certs.php` endpoint is accessible from the public internet

“Integration Pending Approval”

Your institution must be approved by Learnvelo before LTI launches will work. Contact support@learnvelo.com if approval is taking longer than expected.

LTI launch shows a blank page or error

- Verify the **Issuer URL** matches your Moodle site URL exactly (including `https://`)
- Verify the **Client ID** matches exactly
- Ensure LTI version is set to **LTI 1.3** (not LTI 1.1)

Grade passback is not working

- Verify that IMS LTI Assignment and Grade Services is enabled in the Moodle tool settings
- Ensure the content was linked using the Learnvelo deep linking tool
- Check that grade passback was enabled during the deep linking content selection

Reference: Moodle-Specific URLs

Purpose	URL Pattern
Issuer	<code>https://{your-moodle-domain}</code>
OIDC Authorization	<code>https://{your-moodle-domain}/mod/lti/auth.php</code>
JWKS	<code>https://{your-moodle-domain}/mod/lti/certs.php</code>
OAuth 2.0 Token	<code>https://{your-moodle-domain}/mod/lti/token.php</code>

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