

Course creation, modules and publishing — engineered as an LTI inside the LMS.

Huddle Up Learning is a comprehensive LMS for course creation, content management, assessments and analytics. We built the Huddle Up LTI integration so instructors can design, structure and publish courses — with sections, modules and user access — directly inside their learning management system.

CLIENT	REGION	ENGAGEMENT	PLATFORM
Huddle Up Learning	United States	Ed-tech platform · LTI course management	LTI 1.3

Huddle Up Learning.

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OUTCOMES AT A GLANCE

LTI-native

LMS embed

Sections

& modules

Draft → publish

workflow

User access

dashboard

THE BRIEF

The challenge & our solution.

THE CHALLENGE

Educators needed to create and manage full courses — sections, modules, drafts and publishing — without leaving the LMS. There was no LTI-native workflow to launch Huddle Up, build course structure, control visibility and manage enrolled users from one place.

THE SOLUTION

We engineered a full LTI integration for Huddle Up: create and launch courses from the LMS, build sections and modules, manage draft and published states, configure enrollment and access, and give administrators a user dashboard — all embedded via the LTI standard with single sign-on.

How we delivered it.

01

LTI integration

Embedded Huddle Up inside the LMS via LTI — instructors launch the tool without a separate login.

02

Course structure

Built flows to create courses, add sections and modules, and connect external LTI-compliant content.

03

Draft & publish

Designed draft, unpublished and published states so instructors control when content goes live.

04

Users & access

Delivered user management, access dashboards and course-detail views for administrators.

TECHNOLOGY STACK

• LTI 1.3

• Huddle Up LMS

• Ruby on Rails

• Course authoring

• Module management

• Role-based access

INSIDE THE BUILD

The complete walkthrough.

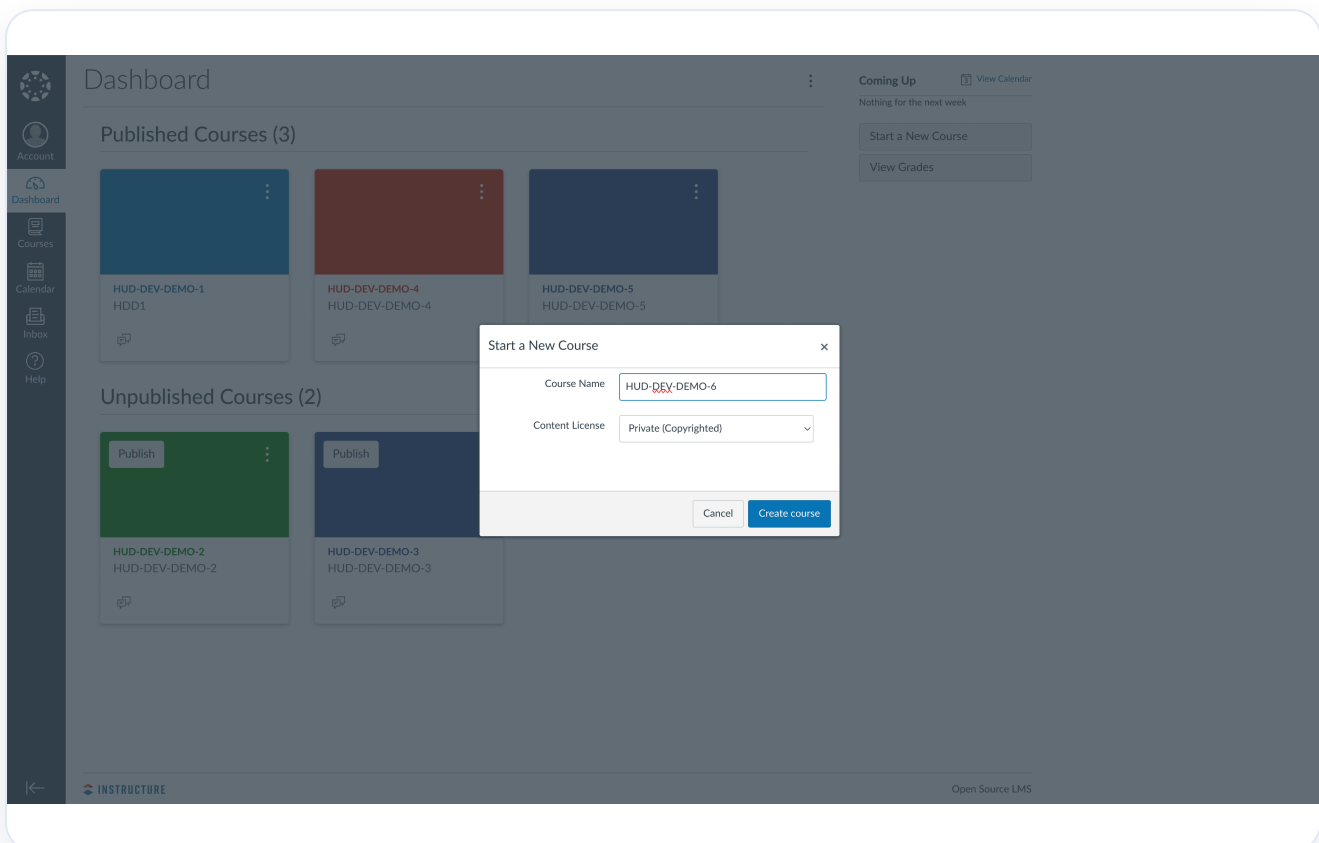
22 screens walk through the build end to end — the following pages cover each one.



01

Create new course

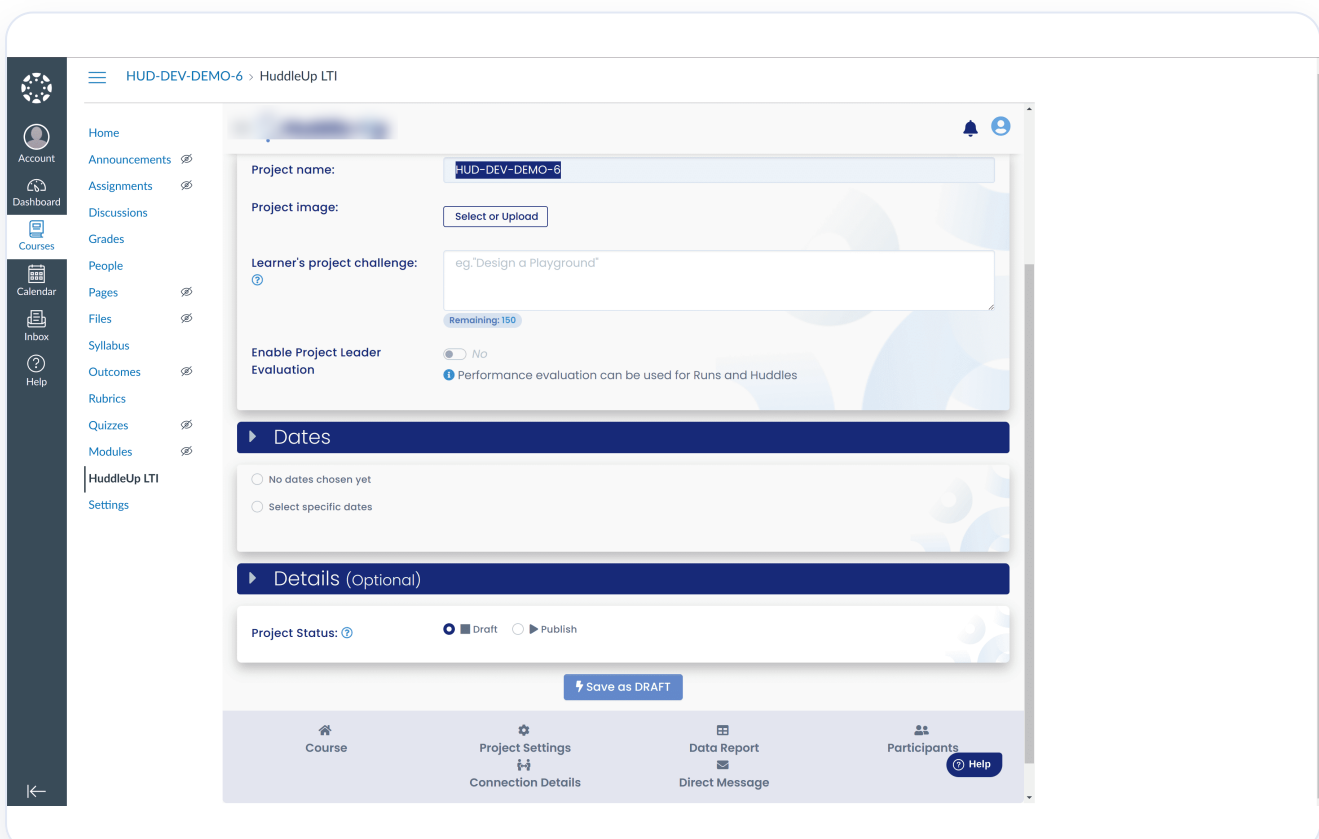
Instructors start a new course from the LTI tool — name, description, enrollment options and visibility in one guided flow.



02

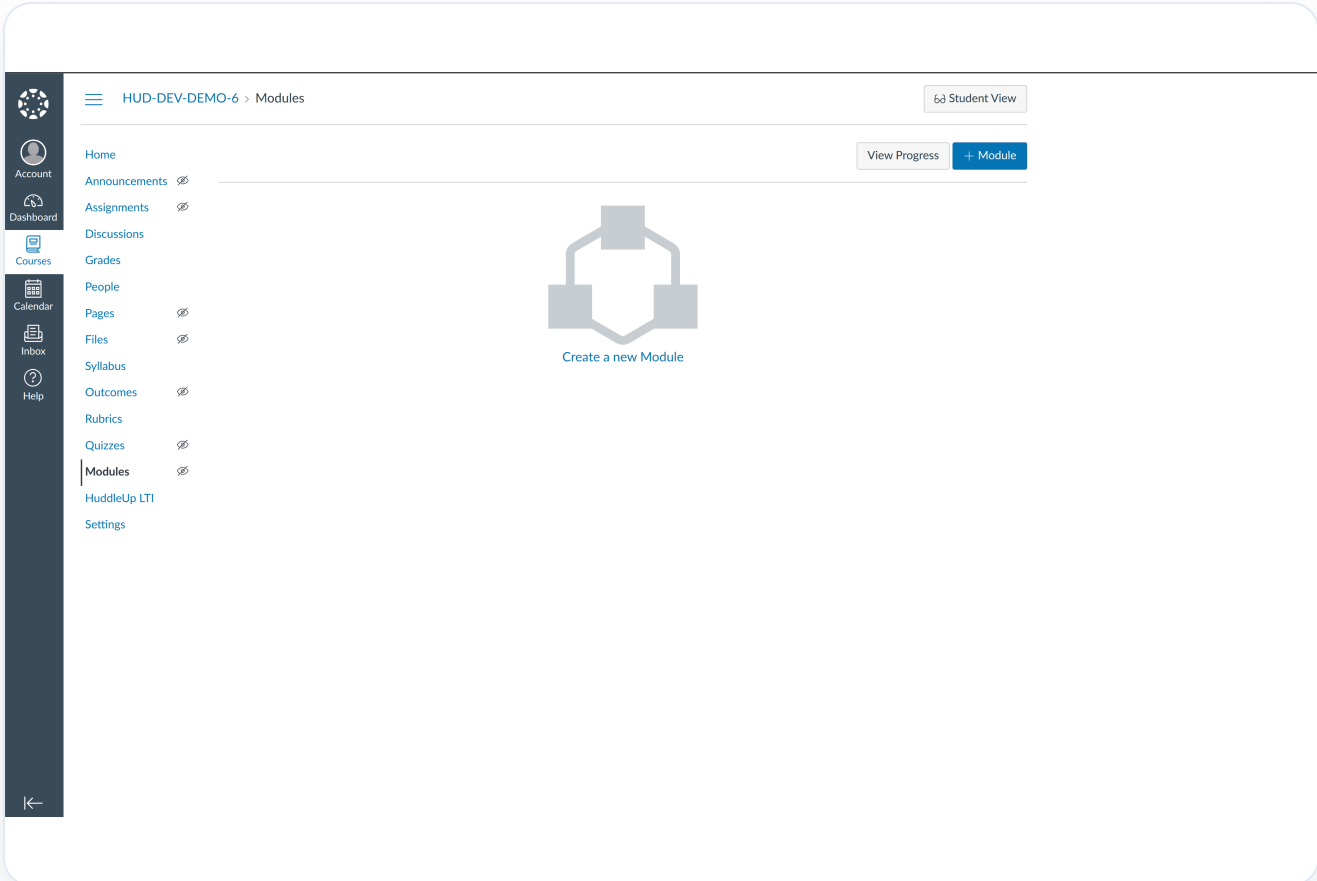
LTI launch

Huddle Up launches seamlessly from the LMS with single sign-on — no separate credentials for instructors or students.



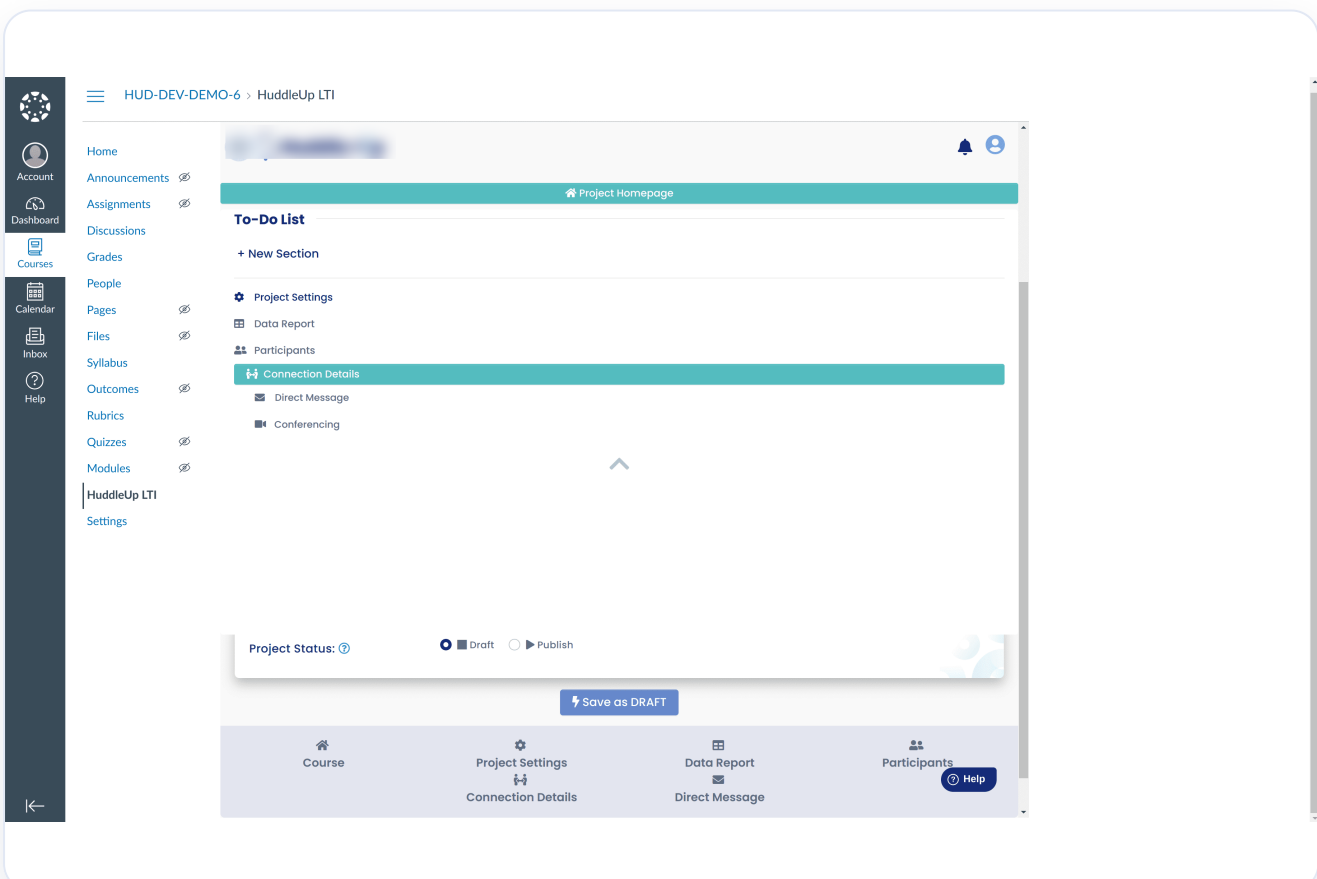
Create new section

Organize course content into sections — the building blocks for modules, lessons and units.



Adding new modules

Add modules to a section, defining topics, lessons and the structure learners will follow.



Adding section

Extend the course outline by adding sections and arranging them in the right order.

The screenshot shows the HUD-DEV-DEMO-6 interface. On the left is a sidebar with navigation links: Account, Dashboard, Courses, Calendar, Inbox, and Help. The main content area is titled 'HUD-DEV-DEMO-6 > HuddleUp LTI'. It features a 'To-Do List' with a '+ New Section' button. Below this is a 'Project Settings' section with links for Data Report, Participants, Connection Details, Direct Message, and Conferencing. A modal dialog box titled 'Add Section' is open, showing a 'Section Name' input field with the text 'Section - 1' and buttons for 'Close' and 'Add Section'. At the bottom, there is a 'Project Status' section with 'Draft' and 'Publish' options, a 'Save as DRAFT' button, and a grid of icons for Course, Project Settings, Data Report, and Participants.

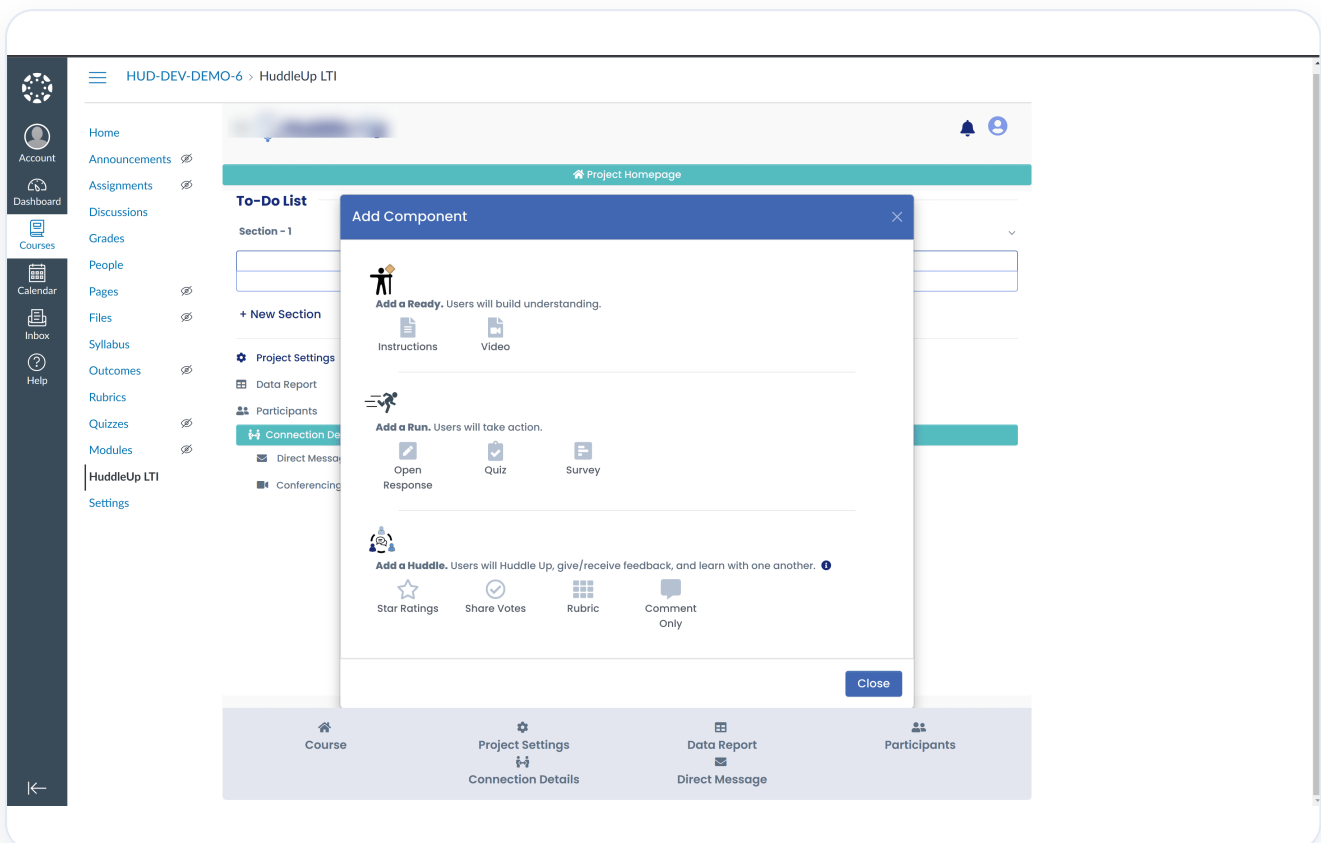
Draft in LTI

Save course content as a draft inside the LTI tool before it is visible to enrolled learners.

The screenshot shows the HUD-DEV-DEMO-6 interface with the 'Modules' section selected. The sidebar on the left is the same as in the previous screenshot. The main content area is titled 'HUD-DEV-DEMO-6 > Modules'. It includes a '6d Student View' button and a '+ Module' button. Below these is a 'Section - 1' header with a dropdown arrow, a plus sign, and a three-dot menu. The main area contains a large dashed box with an upward arrow icon and the text 'Drop files here to add to module' and 'or choose files'.

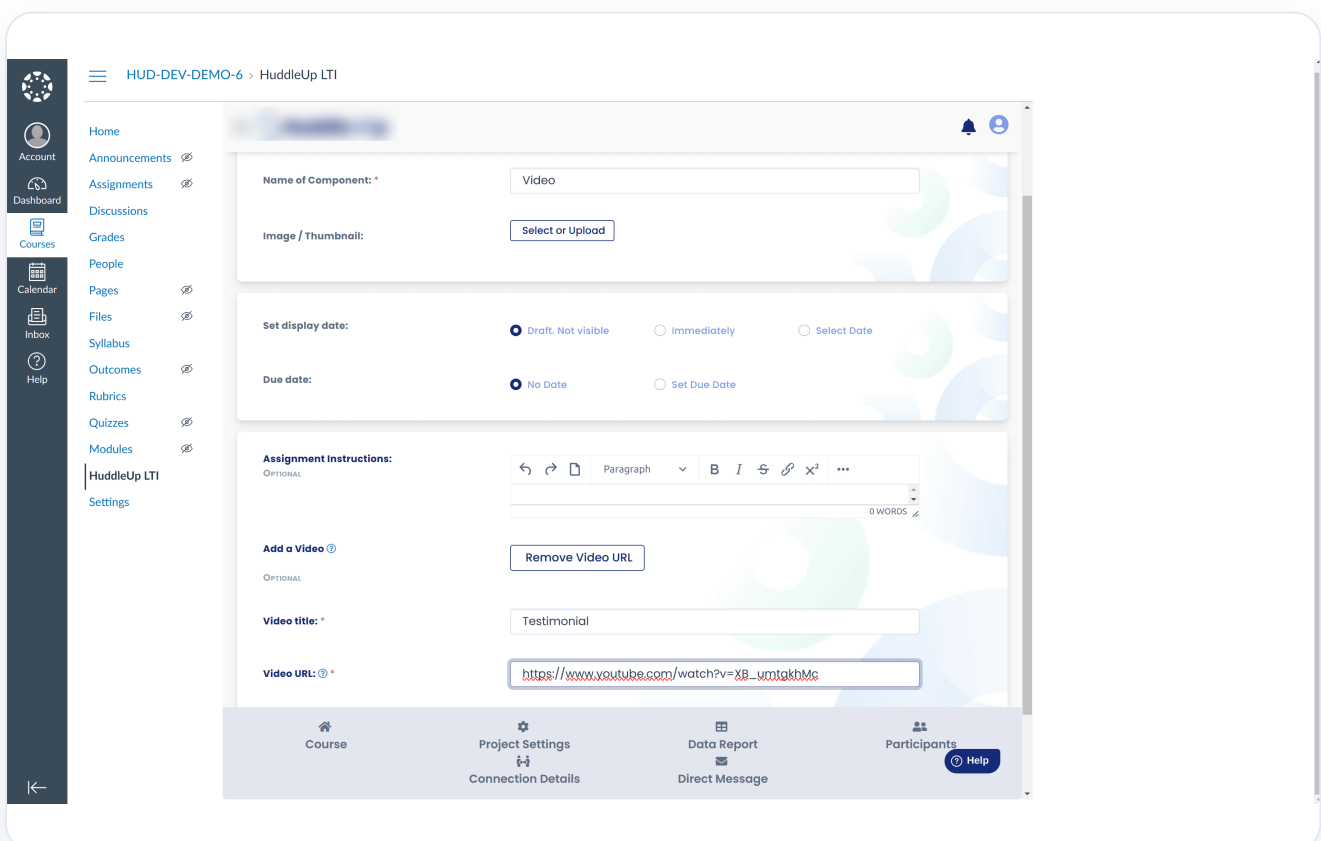
Course adding

Add course materials — lectures, assignments, quizzes and resources — as the structure takes shape.



LTI modules — course view

The course-level modules view inside the LTI integration, showing how content is organized for learners.



Modules overview

Every module in the course at a glance — status, order and linked content.

The screenshot shows the 'Modules overview' page for a course titled 'HUD-DEV-DEMO-6 > HuddleUp LTI'. The left sidebar contains navigation links: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules (selected), HuddleUp LTI, and Settings. The main content area displays a 'To-Do List' for 'Section - 1' with a 'Video' item. Below this is a '+ New Section' button and a list of project settings: Project Settings, Data Report, Participants, and Connection Details. The bottom navigation bar includes links for Course, Project Settings, Data Report, and Participants, along with a Help button.

Module item

A single module item in detail — content, settings and how it appears in the course outline.

The screenshot shows the 'Module item' page for 'HUD-DEV-DEMO-6 > Modules'. The left sidebar is identical to the previous page. The main content area displays a list of modules. The first module is 'Section - 1', which contains a 'Video' item. The page includes a 'Student View' toggle, 'Collapse All' and 'View Progress' buttons, and a '+ Module' button. The bottom navigation bar is also present.

11

Edit section

Update section titles, order and settings without rebuilding the course from scratch.

The screenshot shows the 'Edit Section' dialog box overlaid on the course interface. The dialog has a title bar with a close button (X). Inside, there is a 'Section Name' input field containing 'Section - 1'. Below the input field are three buttons: 'Close', 'Delete' (with a trash icon), and 'Edit Section' (with a checkmark icon). The background interface shows a sidebar with navigation options like Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules, HuddleUp LTI, and Settings. The main content area displays a 'To-Do List' for 'Section - 1' with a 'Video' component. A '+ New Section' button is visible in the background.

12

Modules list

A dense list of every module across sections — sort, filter and jump to any item.

The screenshot shows the 'Modules' list view. The sidebar on the left contains the same navigation options as the previous screenshot. The main content area has a header with 'HUD-DEV-DEMO-6 > Modules' and a '63 Student View' button. Below the header are 'Collapse All', 'View Progress', and '+ Module' buttons. The list of modules is displayed under 'Section- 1'. The first module is 'Video', which has a link icon, a plus icon, and a three-dot menu icon. The list is dense and scrollable.

13

Course details

Full course metadata — description, enrollment settings, dates and visibility options.

14

Modules unpublished

Modules saved but not yet published — instructors review before making them live.

Course unpublished

The course remains in draft — visible to instructors but not yet open to students.

The screenshot shows the Canvas LMS interface for a course named 'HUD-DEV-DEMO-6'. The left sidebar contains navigation links: Account, Dashboard, Courses, Calendar, Inbox, and Help. The main content area shows the 'Modules' section for 'Section-1', which contains a 'Video' item. The top right corner indicates the course status as 'Unpublished' with a 'Publish' button. Below the status, there are several action buttons: 'Import Existing Content', 'Choose Home Page', 'View Course Stream', 'Course Setup Checklist', 'New Announcement', and 'View Course Notifications'. A 'Coming Up' section at the bottom right shows 'Nothing for the next week'.

Course publish details

Publishing settings — status, publish date, visibility and who can enroll.

The screenshot shows the 'HuddleUp LTI' settings page in the Canvas LMS. The left sidebar is the same as in the previous screenshot. The main content area is titled 'HuddleUp LTI' and contains several sections: 'Learner's project challenge' with a text input field containing 'Demo' and a 'Remaining: 148' indicator; 'Enable Project Leader Evaluation' with a toggle switch set to 'No' and a note that 'Performance evaluation can be used for Runs and Huddles'; 'Dates' section with radio buttons for 'No dates chosen yet' and 'Select specific dates'; 'Details (optional)' section with a 'Project Status' dropdown set to 'Publish' and a progress bar showing '100%' completion; and a 'Save as PUBLISHED' button. At the bottom, there is a 'Clone this course' button and a footer with links for 'Course', 'Project Settings', 'Connection Details', 'Data Report', 'Direct Message', 'Participants', and 'Help'.

Course detail page

The public-facing course detail view learners see once the course is live.

The screenshot displays the 'Course Details' page for 'HUD-DEV-DEMO-6'. The left sidebar contains navigation links: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules, HuddleUp LTI, and Settings. The main content area is titled 'Course Details' and includes fields for Name, Course Code, Blueprint Course, Time Zone, Subaccount, Term, and Participation. The 'Published' status is indicated by a green button. The 'Current Users' table shows 1 Teacher and 0 Students. The 'Language' is set to 'Not set (user-configurable, defaults to English (Unit))'.

Course Details

Image: [Choose Image](#)

Name: HUD-DEV-DEMO-6

Course Code: HUD-DEV-DEMO-6

Blueprint Course: No

Time Zone: Mountain Time (US & Canada) (-07:00/-06:00)

Subaccount: Manually-created courses

Term: Default Term

Participation: Course

Course participation is limited to **course** start and end dates. Any section dates created in the course may override course dates.

Start:

End:

☐ Restrict students from viewing course before course start date

☐ Restrict students from viewing course after course end date

Language: Not set (user-configurable, defaults to English (Unit))

This will override any user/system language preferences. This is only recommended for foreign language courses

Course Status

Course Statistics

[Course Calendar](#)

[Conclude this Course](#)

[Delete this Course](#)

[Copy this Course](#)

[Import Course Content](#)

[Export Course Content](#)

[Reset Course Content](#)

[Validate Links in Content](#)

Current Users

Students:	None
Teachers:	1
TAs:	None
Designers:	None
Observers:	None

Course modules item

How individual module items render on the published course page for enrolled learners.

The screenshot displays the 'Modules' page for 'HUD-DEV-DEMO-6'. The left sidebar contains navigation links: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules, HuddleUp LTI, and Settings. The main content area shows a list of modules, including 'Section-1' and 'Video'. The 'Published' status is indicated by a green button. The 'Coming Up' section shows 'Nothing for the next week'.

Course Modules

[Collapse All](#) [View Progress](#) [+ Module](#)

Section-1

[Video](#)

Course Status

[Import Existing Content](#)

[Choose Home Page](#)

[View Course Stream](#)

[Course Setup Checklist](#)

[New Announcement](#)

[View Course Notifications](#)

Coming Up [View Calendar](#)

Nothing for the next week

Users

Manage enrolled users — roles, access levels and participation across the course.

HUD-DEV-DEMO-6 > People 63 Student View

Home

Announcements

Assignments

Discussions

Grades

People

Pages

Files

Syllabus

Outcomes

Rubrics

Quizzes

Modules

HuddleUp LTI

Settings

Everyone Groups + Group Set

Search people All Roles + People

Name	Login ID	SIS ID	Section	Role	Last Activity	Total Activity
jacob10 Y pending		jacob10	HUD-DEV-DEMO-6	Student		
jacob17 Y	jacob+17@zionstar.in	jacob17	HUD-DEV-DEMO-6	Teacher	Oct 13 at 1:06pm	11:04

Users access dashboard

An administrator dashboard showing who has access, when they joined and their activity.

HUD-DEV-DEMO-6 > People 63 Student View

Home

Announcements

Assignments

Discussions

Grades

People

Pages

Files

Syllabus

Outcomes

Rubrics

Quizzes

Modules

HuddleUp LTI

Settings

Everyone Groups + Group Set

Search people All Roles + People

Name	Login ID	SIS ID	Section	Role	Last Activity	Total Activity
HUD - Demo - 2 HD2						
HUD-DEV-DEMO-1 HDD1						
HUD-DEV-DEMO-5 HUD-DEV-DEMO-5						
HUD-DEV-DEMO-6 HUD-DEV-DEMO-6						

To Do
Nothing for now

Recent Feedback
Nothing for now

View Grades

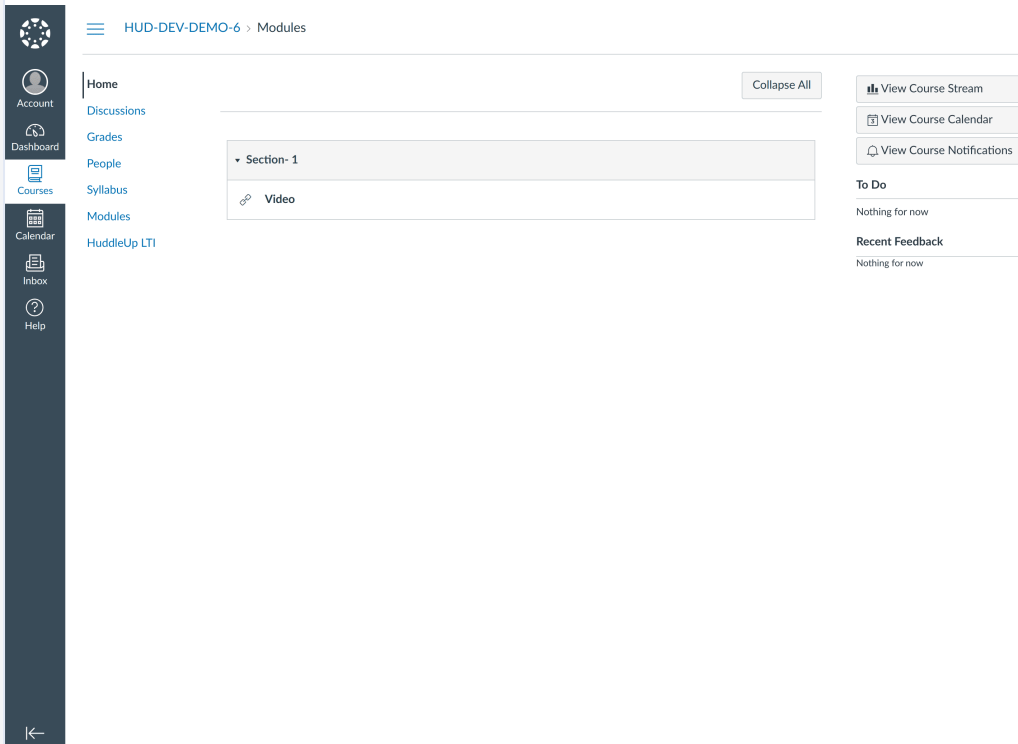
Dashboard

INSTRUCTURE Open Source LMS

21

View course

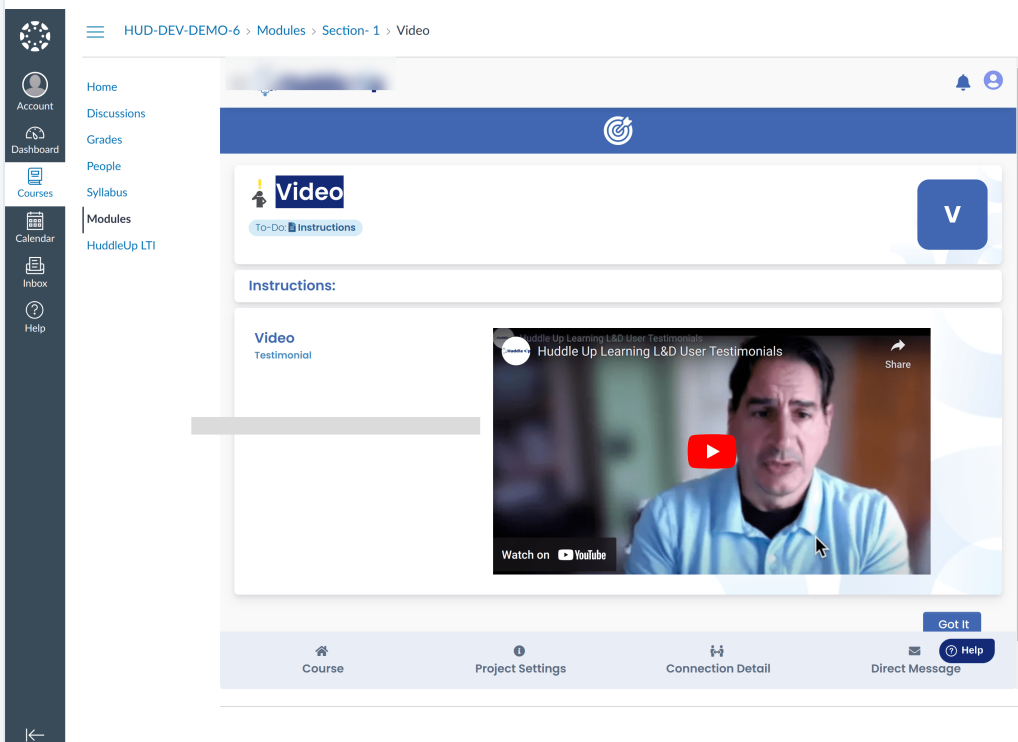
Preview the course as a learner would see it before or after publishing.



22

Course published

The published course live in Huddle Up — accessible to enrolled students from the LMS.



Engineered for measurable impact.

From creating a course and building modules to publishing it for enrolled learners — the entire Huddle Up workflow runs inside the LMS via LTI.

Huddle Up Learning · LTI Integration

Built and delivered by ZionStar

**LTI-
native**

LMS embed

Sections

& modules

**Draft →
publish**

workflow

**User
access**

dashboard

Want results like these for your learners?

Tell us what you're building — we'll map the fastest path to your outcome.

[Book a consultation](#)

