Smart Rules AI

Smart Rules AI lets you **automate actions inside a Moodle course** using rules like:

If something happens (a condition) → **then** do something (an action)

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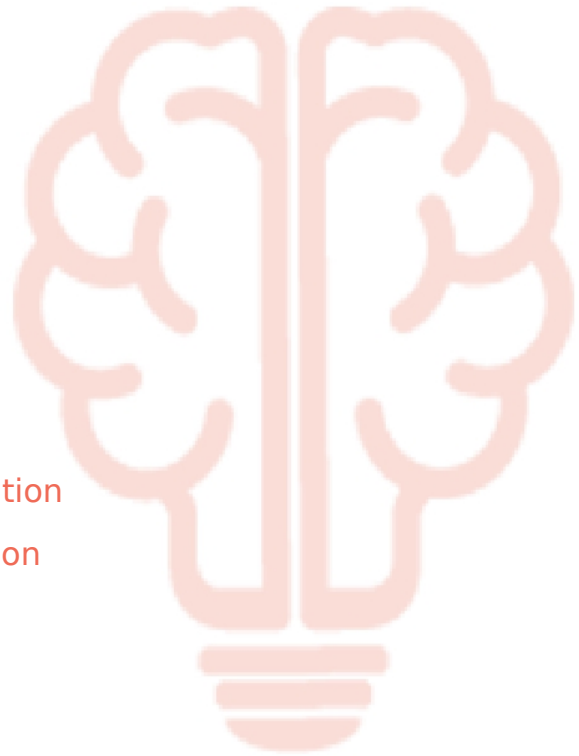


Overview

Smart Rules AI helps teachers and administrators automate course follow-ups using simple logic:

If a learner meets a condition → **then** Moodle performs an action.

This is useful when you want Moodle to respond automatically to common learning situations—without manually checking every learner.

What you can automate

Smart Rules AI can react to:

- **Activity progress** (completed / not completed)
- **Grades** (above or below a threshold)
- **Learner behavior** (for example, inactivity or no course access)

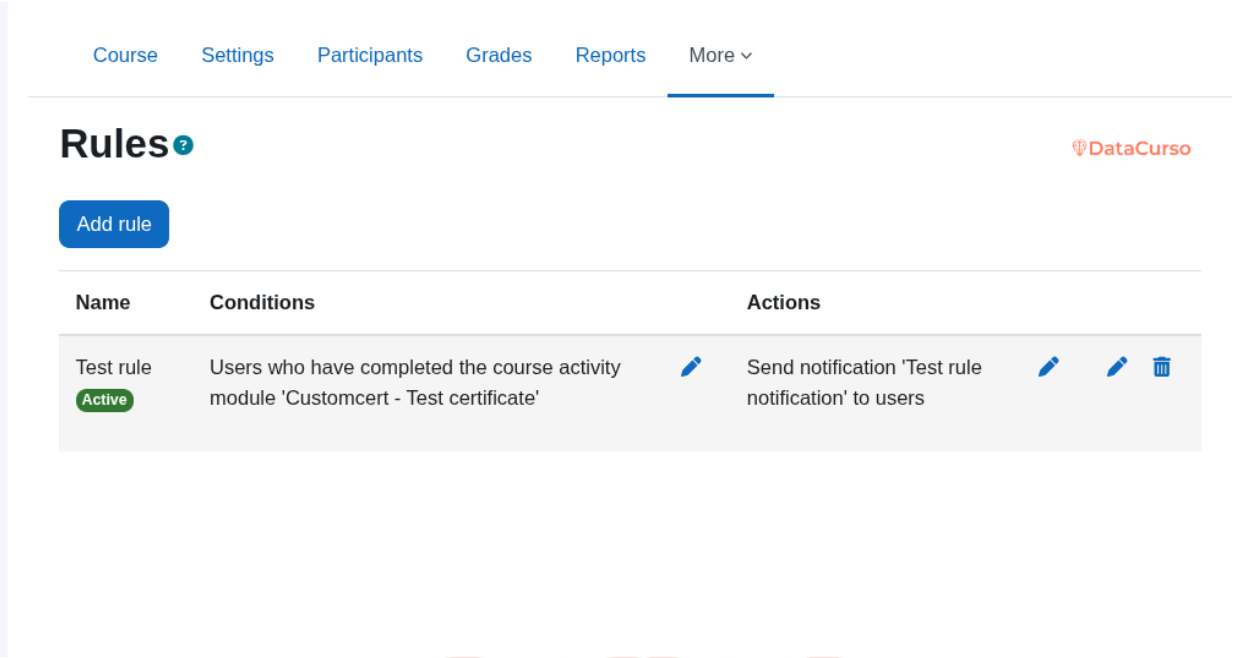
Typical outcomes include:

- Sending reminders or nudges to reduce inactivity
- Unlocking activities for specific learners
- Creating **AI reinforcement activities** for learners who need extra practice

How it works (mental model)

A rule has three parts:

1. **Rule**: the container (name + active/inactive)
2. **Condition**: who should match and when
3. **Action**: what should happen for the matched learners



Where it fits in Datacurso AI

Smart Rules AI is built on the **Datacurso AI Provider** and is part of the **Datacurso AI Plugin Suite**. This is what enables AI-powered actions (like generating reinforcement activities) while keeping the workflow inside Moodle.

Recommended path (first-time users)

1. Review **Prerequisites** (especially Moodle cron)
2. Complete **Installation** (admins)
3. Create your first automation in **Quickstart**
4. Use **Available conditions** and **Available actions** as a reference when building more advanced rules

Prerequisites

> **Who is this page for?** Mainly site administrators.
> If you are a teacher and something is not working (for example, some actions do not appear), this page helps you understand what is missing on the platform.

Smart Rules AI depends on Moodle components and additional plugins. If any prerequisite is missing or not working properly, some rules or actions may not run.

Prerequisites

1) Moodle 4.5

You must be running **Moodle version 4.5**.

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2) Moodle cron running correctly

Moodle must have **cron** configured and running correctly, because Smart Rules AI relies on scheduled tasks to evaluate conditions and execute actions.

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3) “Restriction by user” plugin (required for specific actions)

You must have the Moodle plugin **Restriction by user** installed.
This plugin is required to use the following actions:

- **Create AI activity**
- **Enable activity**

Free download:
https://moodle.org/plugins/availability_user/versions

4) “Course Creator AI” plugin (required for one action)

You must have the Moodle plugin **Course Creator AI** installed.
This plugin is required to use the following action:

- **Create AI activity**

Free download:
https://moodle.org/plugins/local_coursegen

Installation

> **Who is this for?** Site administrators.
> After installation, teachers can configure rules inside their courses.

You can install Smart Rules AI in two ways: **uploading a ZIP** (recommended) or **manual installation**.

Option 1: Install by uploading a ZIP (recommended)

1. Log in to Moodle as an administrator.
2. Go to: **Site administration → Plugins → Install plugins**
3. Upload the ZIP file that contains the plugin.
   - Moodle will normally detect the plugin type automatically.
   - If Moodle asks for extra details, follow the on-screen prompts.
4. Review the validation report and click to finish the installation.

 Expected result: Moodle completes the installation and shows the plugin as installed.

Option 2: Install manually (server access)

1. Copy the plugin source folder into your Moodle installation directory:

```
{your/moodle/dirroot}/local/smart-rules-ai
```

2. Complete the installation in Moodle:

Go to: **Site administration → Notifications**, and follow the upgrade steps

or, if you prefer the command line:

```
php admin/cli/upgrade.php
```

 Expected result: the upgrade completes without errors and the plugin becomes available inside courses.

Teacher guide

Quick landing page for teachers using Smart Rules AI. Follow this guide to create rules, pick the right conditions and actions, and troubleshoot course-level automation.

Quickstart (Create your first rule)

In this quickstart you will create a working rule that detects learners who have not accessed the course recently and sends them a reminder.

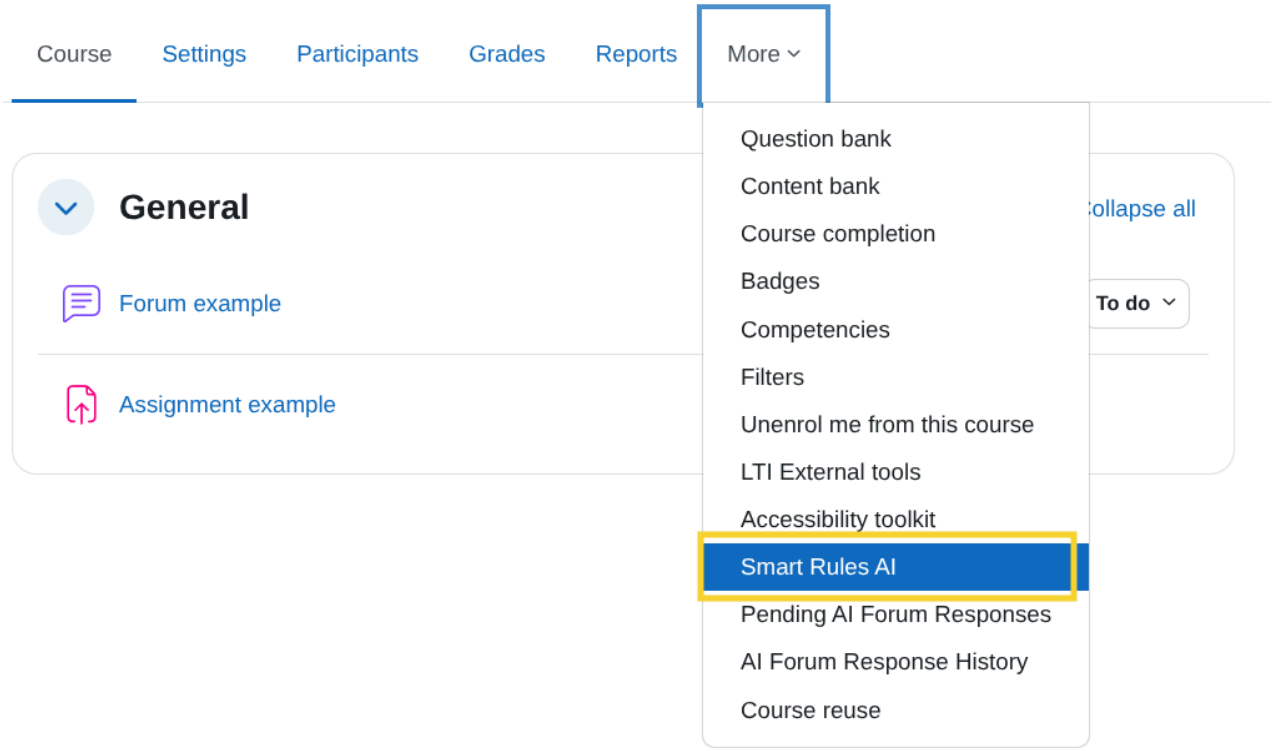
 Outcome: A rule that automatically notifies inactive learners.

Before you start (1 minute)

- You need **teacher** or **administrator** access in the course.
- The site must have **Moodle cron** running for rules to execute automatically (see Prerequisites).

Step 1 — Open Smart Rules AI in your course

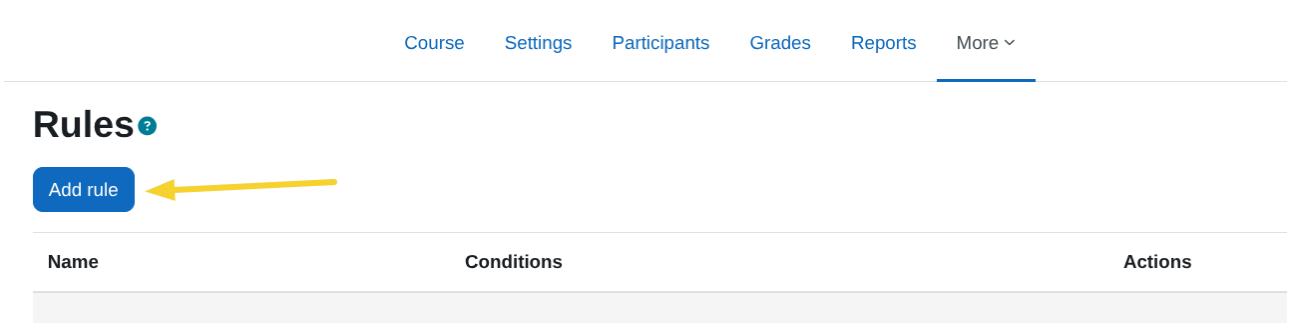
1. Open the course where you want automation.
2. Go to **More → Smart Rules AI**.

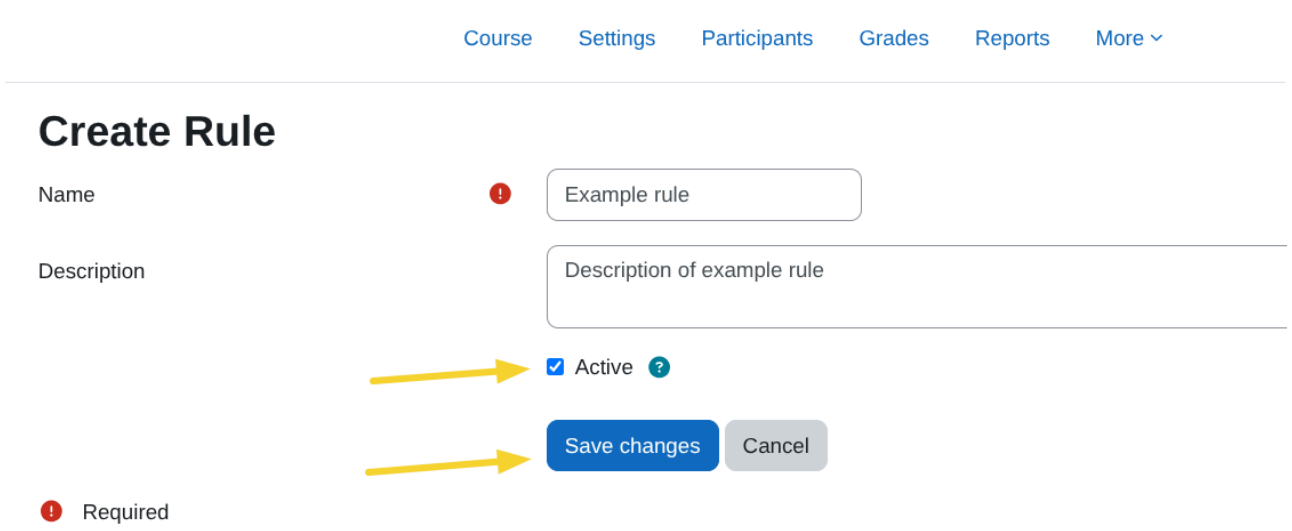


You should see: a **Rules** page (a list of rules for the course).

Step 2 — Create a new rule

1. Click **Add rule**.
2. Fill in:
   - **Name:** `Inactivity reminder (7 days)`
   - **Description:** `If a learner has not accessed the course for 7 days, send a reminder.`
   - Turn **Active** ON
3. Click **Save changes**.

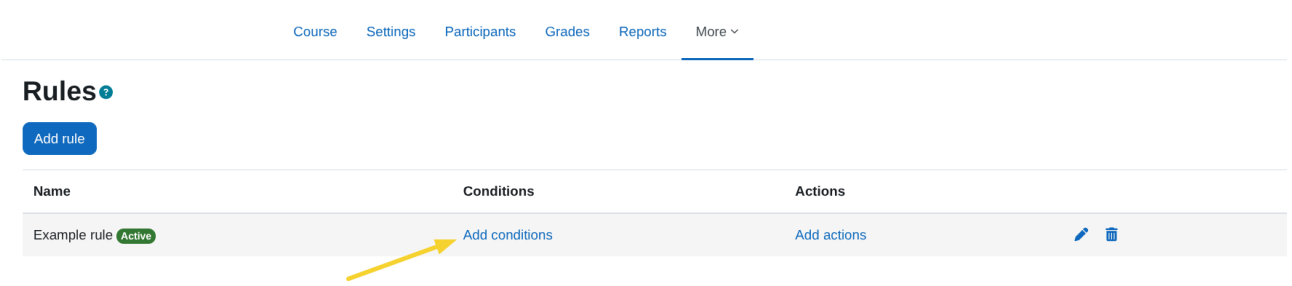


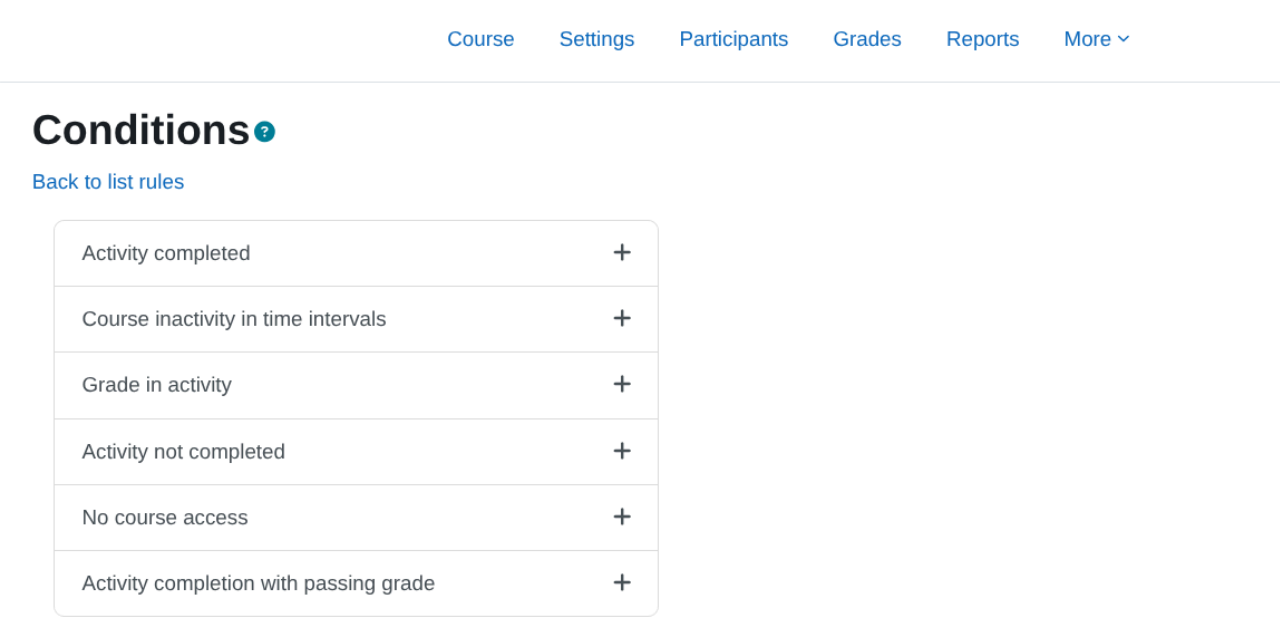


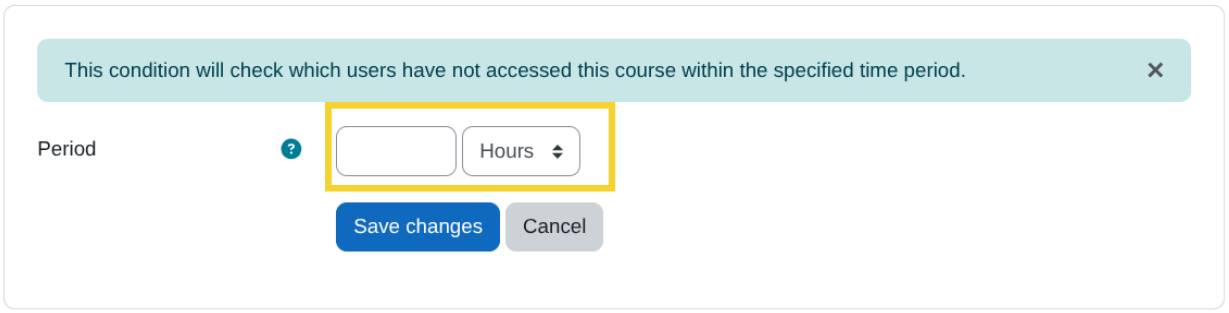
You should see: your rule listed in the Rules page.

Step 3 — Add a condition (No course access)

1. In your rule row, click **Add conditions**.
2. Find **No course access** and click **+** to add it.
3. Set the **Period** to `7 days` (or your preferred interval).
4. Save the condition.





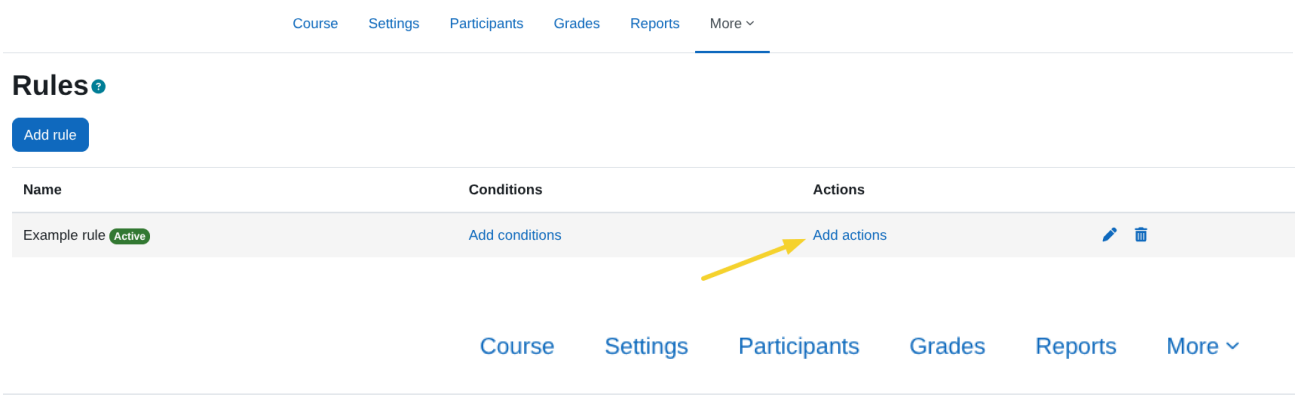


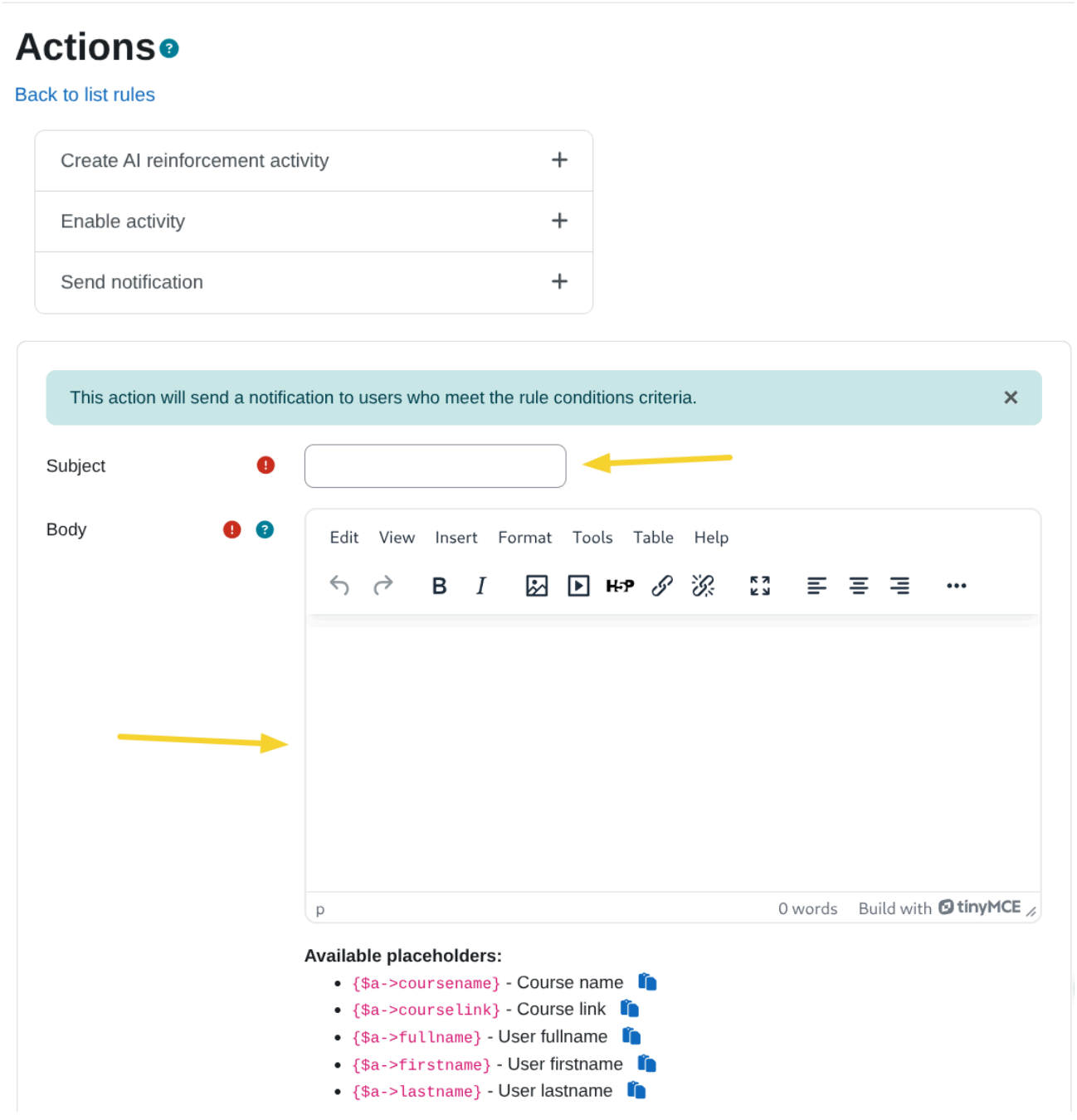
 You should see: the condition attached to your rule.

Step 4 — Add an action (Send notification)

1. In your rule row, click **Add actions**.
2. Find **Send notification** and click **+** to add it.
3. Configure:
   - **Subject:** `We miss you in {$a->coursename}`
   - **Body:** `Hi {$a->firstname}, we noticed you haven't accessed the course recently. You can continue here: {$a->courselink}`
4. Under **Roles to notify**, select **Student** (and optionally **Teacher** if you also want teachers notified).

5. Save the action.



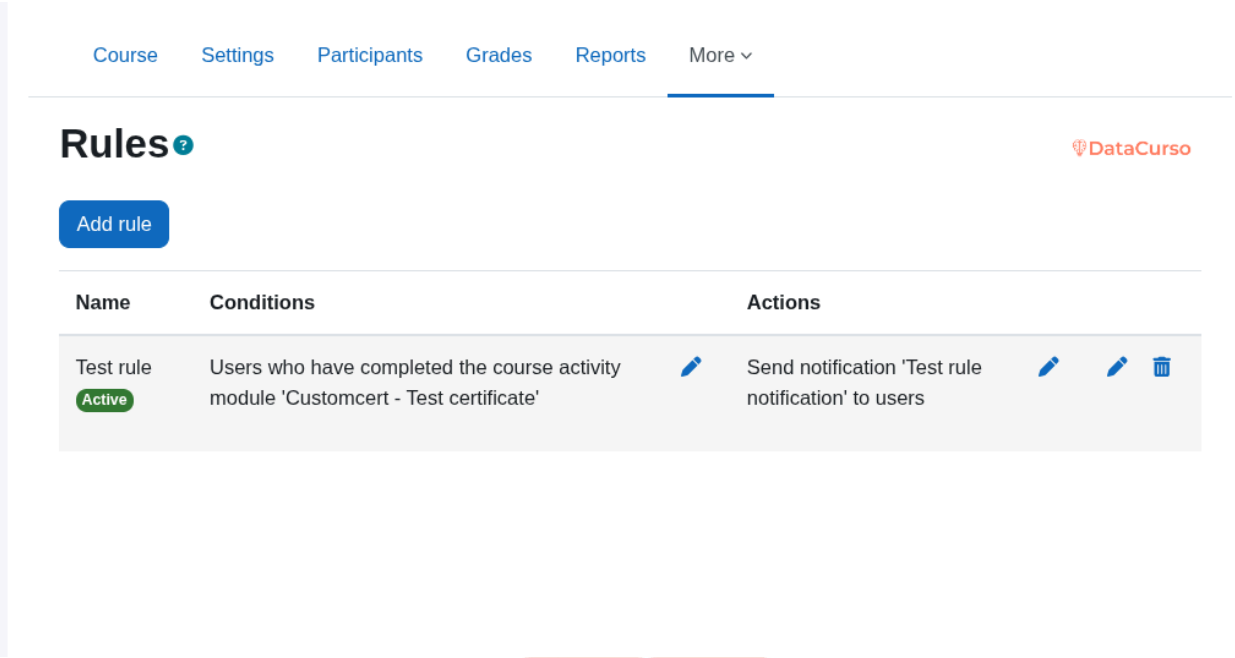


 You should see: the action attached to your rule.

Step 5 — Confirm the rule is active

Back on the Rules page, confirm:

- The rule shows as **Active**
- It has **1 condition** and **1 action**



What happens next?

- When a learner matches the condition (no course access for 7 days), Smart Rules AI will run the rule and send the notification.

NOT WORKING?

If the rule doesn't run automatically, the most common cause is **cron not running**. Check Prerequisites.

Next steps

- Learn other triggers in **Available conditions**
- Explore automation outcomes in **Available actions**

How to use

This page explains how to use Smart Rules AI in real course workflows (step-by-step thinking), so you can build rules that are reliable and easy to maintain.

If you want the click-by-click UI steps, start here: **Quickstart**.

The workflow (how Smart Rules AI works)

A Smart Rules AI automation is always:

1. **Rule** (name + active/inactive)
2. **Condition** (who matches and when)
3. **Action** (what happens for matched learners)

A practical way to think about it:

> **Condition = detection**
> **Action = intervention**

Step-by-step: build a good rule (recommended approach)

Step 1 — Define the learning problem (one sentence)

Examples:

- “Learners stop coming to the course.”
- “Learners pass an activity but don’t continue.”

- “Learners score low and need extra practice.”

This keeps the rule focused and prevents overly complex automations.

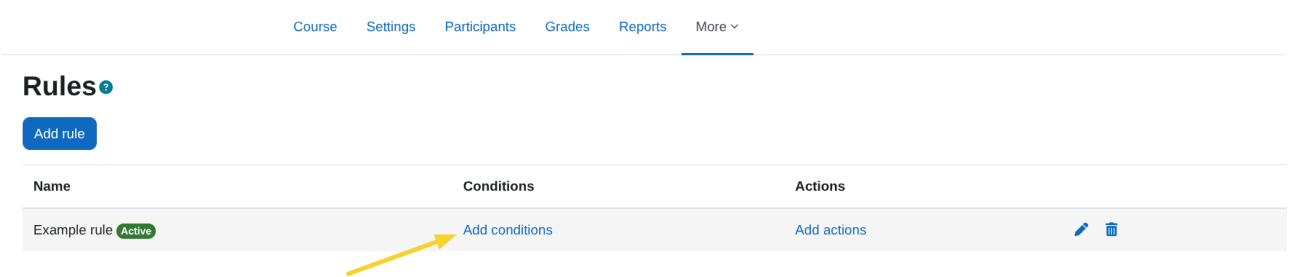
Step 2 — Pick the condition that best matches the problem

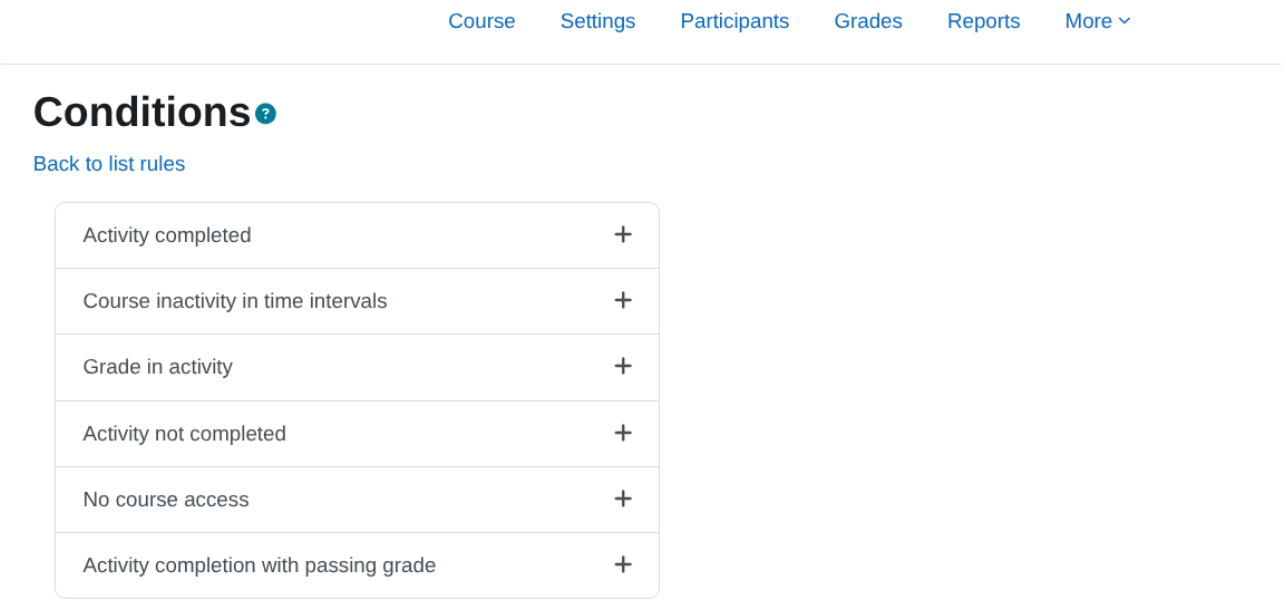
Use this as a quick guide:

- **No course access** → learners are not entering the course
- **Course inactivity at time intervals** → learners are inactive relative to a base date (enrolment/course start)
- **Activity completed** → learners finished a specific activity
- **Activity not completed** → learners missed completion by an expected date
- **Grade in activity** → learners scored below/above a threshold
- **Activity completion with passing grade** → learners completed and passed

See the full list and configuration details here: **Available conditions**.

> **KEEP IT SIMPLE**
>
> Start with **one condition** per rule. Add complexity only when the basic automation works reliably.



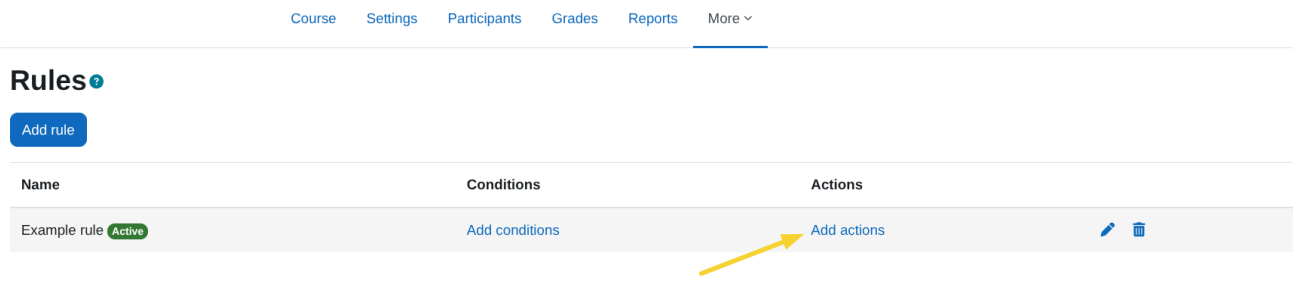


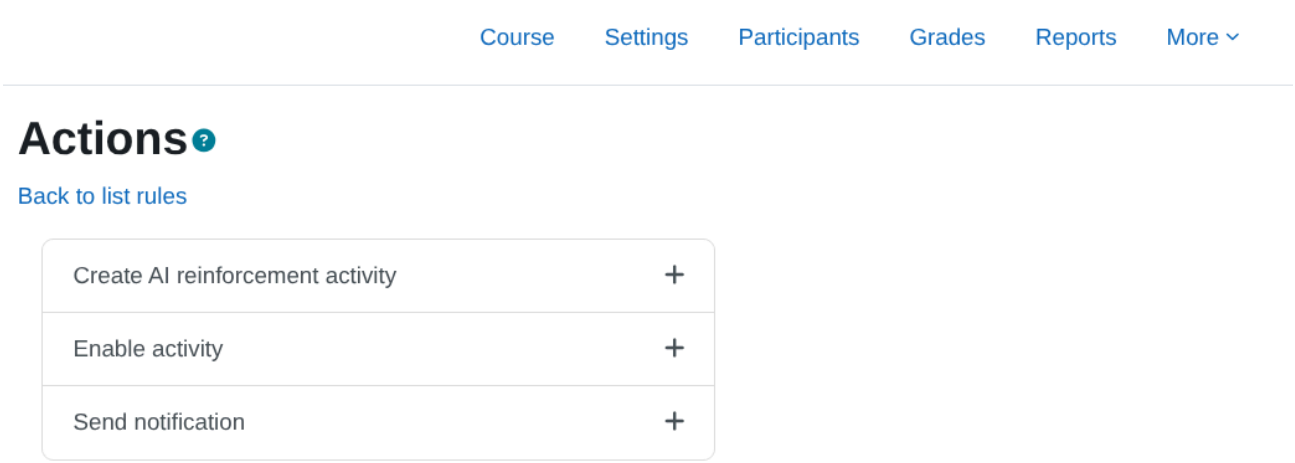
Step 3 — Choose the action (what you want to happen)

Common actions:

- **Send notification** → reminders, encouragement, teacher alerts
- **Enable activity** → unlock content only for specific learners
- **Create AI reinforcement activity** → generate extra practice automatically (requires extra plugins)

See configuration details here: **Available actions**.



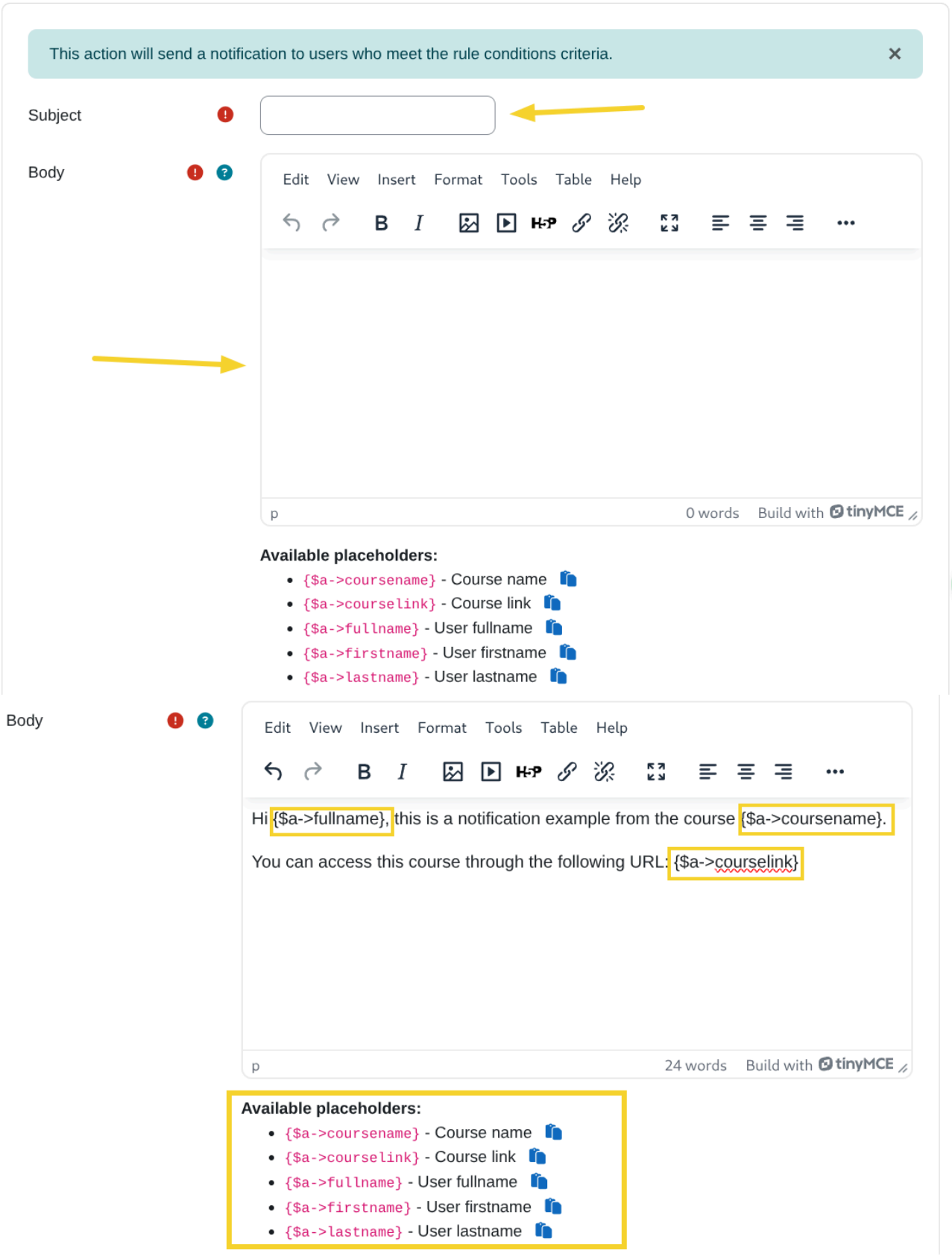


Step 4 — Write the message or prompt (make it useful)

For notifications, include:

- A friendly reason (“We noticed you haven’t accessed the course…”)
- A clear next step (“Continue here:” + course link)
- A supportive tone (avoid blame)

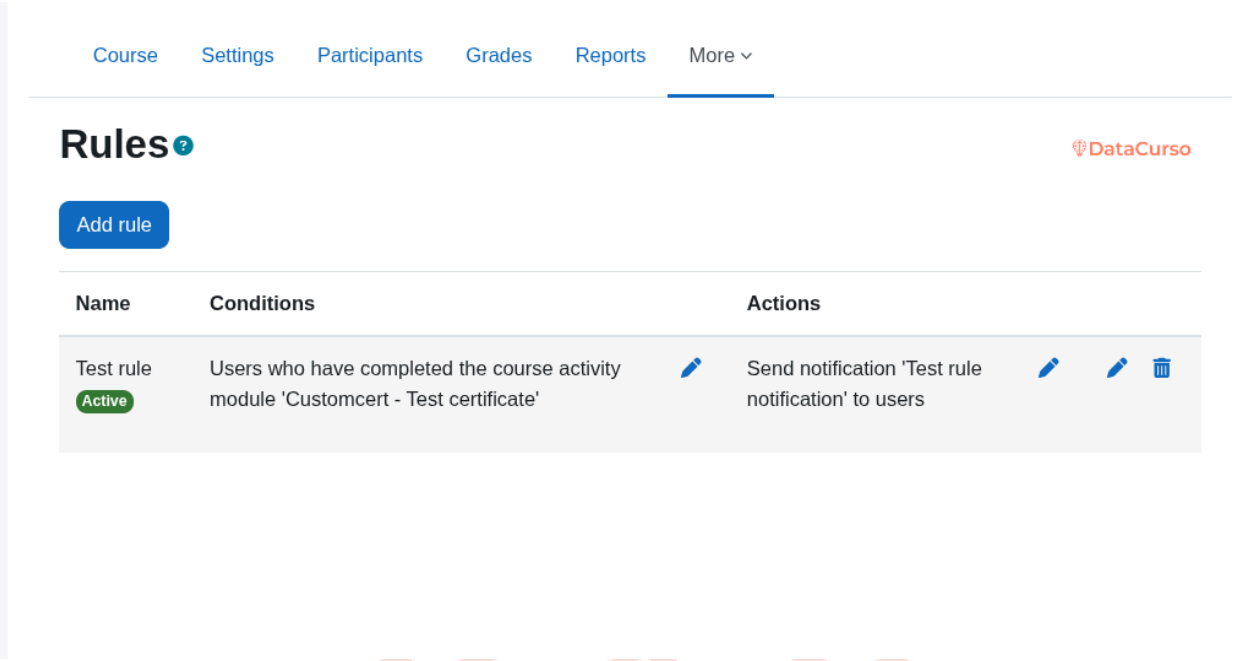
You can personalize text using placeholders (for example learner name and course link). These are documented in the **Send notification** action.



Step 5 — Activate, then monitor

- Turn the rule **Active** when it’s ready.

- Verify it behaves as expected (especially in a test course first).



If nothing seems to happen, check **Prerequisites** (cron is the most common cause).

Recommended patterns (best practice)

Pattern A — One rule = one purpose

Good:

- “Inactivity reminder (7 days)”
- “Congrats on passing Activity 2”
- “Low grade follow-up for Quiz 1”

Avoid:

- “All interventions in one mega-rule”

Why: smaller rules are easier to debug, explain, and maintain.

Pattern B — Prevent notification spam

If you send notifications:

- Use longer intervals for reminders (for example weekly instead of daily)
- Keep messages short and actionable
- Notify teachers only when necessary

Also review your site-level notification setup if you use Message Hub: **Configuration**.

Pattern C — Make completion and grading consistent

Several conditions depend on Moodle's completion/grading configuration. If an activity does not appear in a condition selector, it usually means completion or grade settings are missing.

See the notes in: **Available conditions**.

Common "how do I…" scenarios

I want learners to come back to the course

Use:

- **Condition:** `No course access`
- **Action:** `Send notification`

Ready-to-copy version: **Use cases (Templates) – Template 1**

I want to congratulate learners when they pass

Use:

- **Condition:** `Activity completion with passing grade`
- **Action:** `Send notification`

Ready-to-copy version: **Use cases (Templates) – Template 2**

I want to intervene when grades are low

Use:

- **Condition:** `Grade in activity` with a threshold (for example `Must be < 60`)
- **Action:** `Send notification` (or AI reinforcement if enabled)

Ready-to-copy version: **Use cases (Templates) – Template 3**

I want to follow up after a missed deadline

Use:

- **Condition:** `Activity not completed` with an expected completion date
- **Action:** `Send notification`

Ready-to-copy version: **Use cases (Templates) – Template 4**

I want to generate personalized practice automatically

Use:

- **Condition:** `No course access` or `Grade in activity`
- **Action:** `Create AI reinforcement activity`

This requires extra plugins; see: **Prerequisites**
Ready-to-copy version: **Use cases (Templates) – Template 5**

Troubleshooting checklist (fast)

If a rule does not behave as expected:

1. Is the rule **Active**?
2. Does the condition match real learners right now?
3. Are required activity completion / grade settings configured?
4. Is **cron** running reliably? (See **Prerequisites**)
5. For notifications: are the right **roles** selected in “Roles to notify”?

If you still can’t find the cause, go back to:

- **Available conditions**
- **Available actions**

Configuration

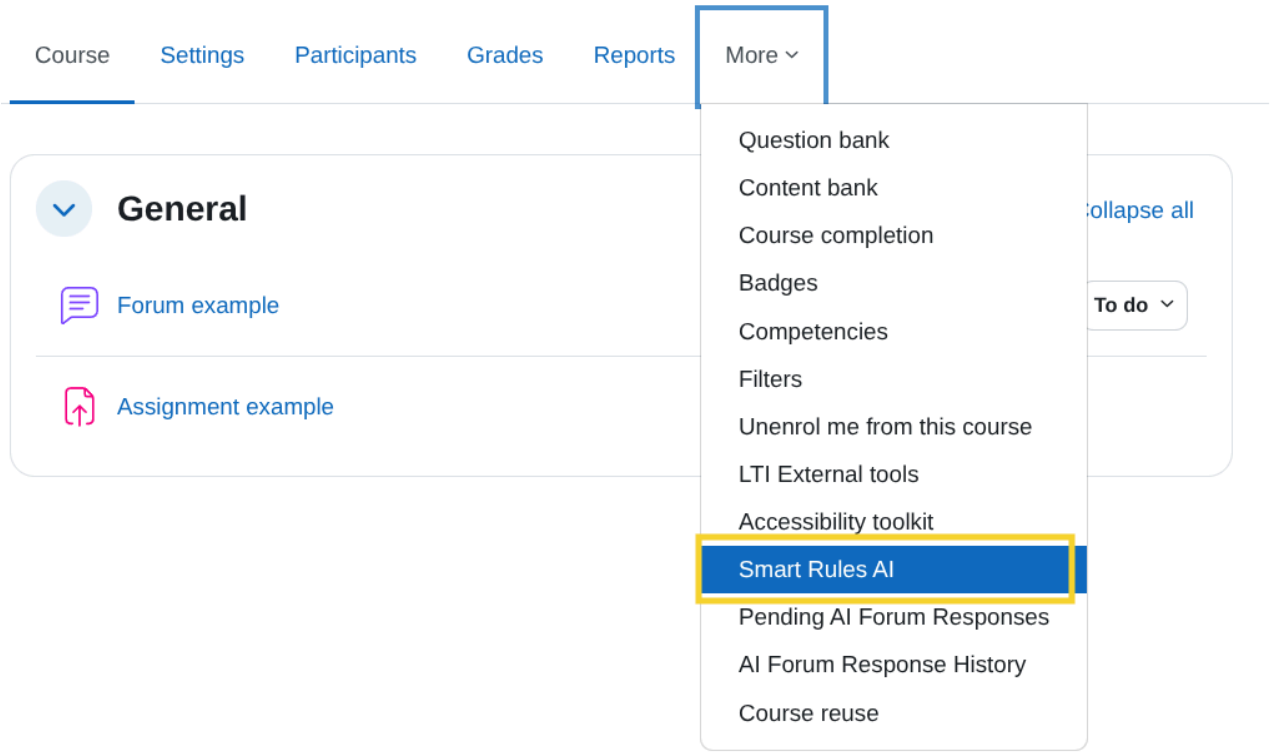
Most Smart Rules AI setup happens **within each course** (when you create rules).
At the site level, the focus is ensuring scheduled tasks (cron) run reliably and optionally improving notification delivery (Message Hub).

Course-level configuration (Teachers)

1) Where to configure rules

Rules are created and managed per course:

Course → More → Smart Rules AI



2) Activate or pause automation

Each rule has an **Active** toggle:

- **Active ON:** the rule can run when conditions are met
- **Active OFF:** the rule is paused (no actions execute)

> Tip: Use Active OFF to pause automation while you tweak conditions or actions.

Permissions and visibility

If a teacher cannot see **Smart Rules AI** in the course menu, the most common causes are:

- Missing course permissions or role
- The plugin is not installed or enabled site-wide

(See Installation and your site’s role configuration.)

What is NOT configured here

- Conditions and actions are configured within each rule (see **Adding rules**, **Available conditions**, and **Available actions**).
- AI reinforcement activity creation depends on the plugins listed in **Prerequisites**.

Troobleshoting

This section lists the most common issues when using Smart Rules AI and how to fix them.

I can’t find “Smart Rules AI” in my course menu

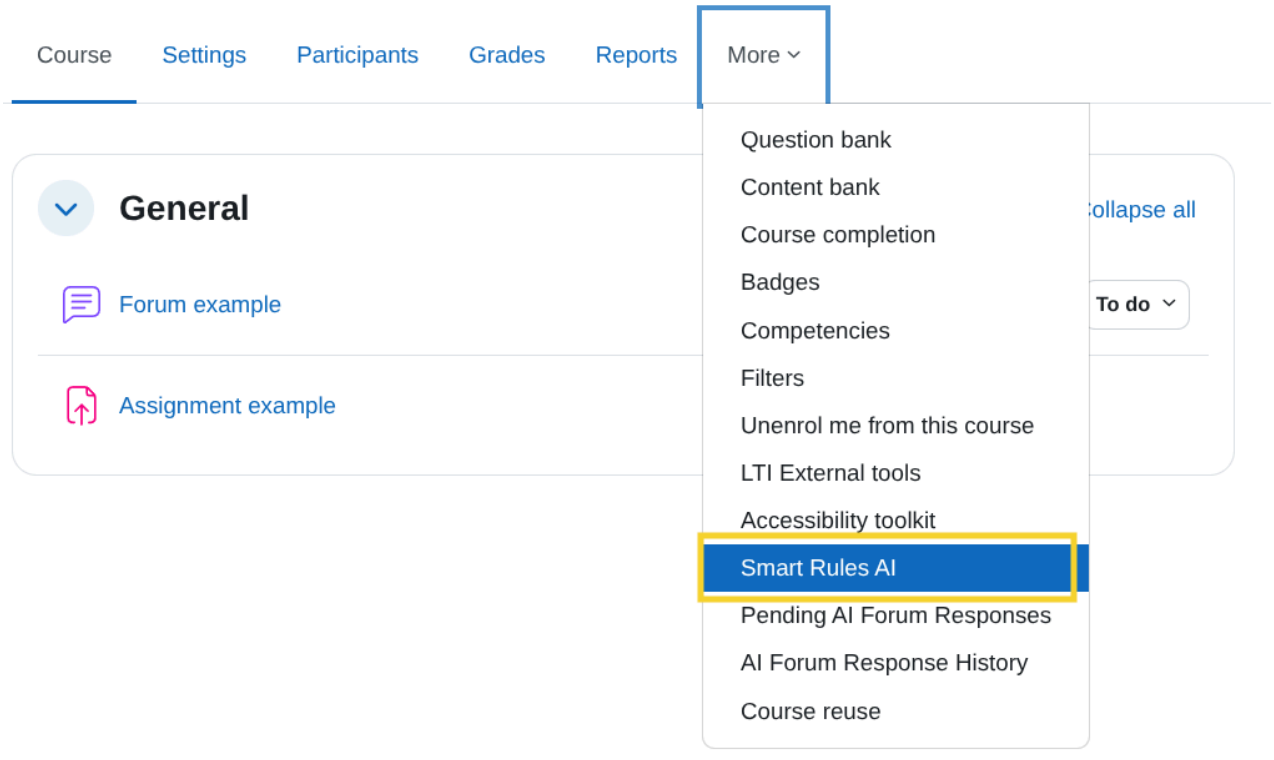
Most common causes:

- You don’t have the required role/capabilities in the course (teacher/admin).
- The plugin is not installed or not enabled site-wide.

What to do:

1. Confirm you are in the correct course.
2. Ask your administrator to verify the plugin is installed and enabled.
3. Request teacher-level access in that course.

> Tip: The usual path is **Course → More → Smart Rules AI**.



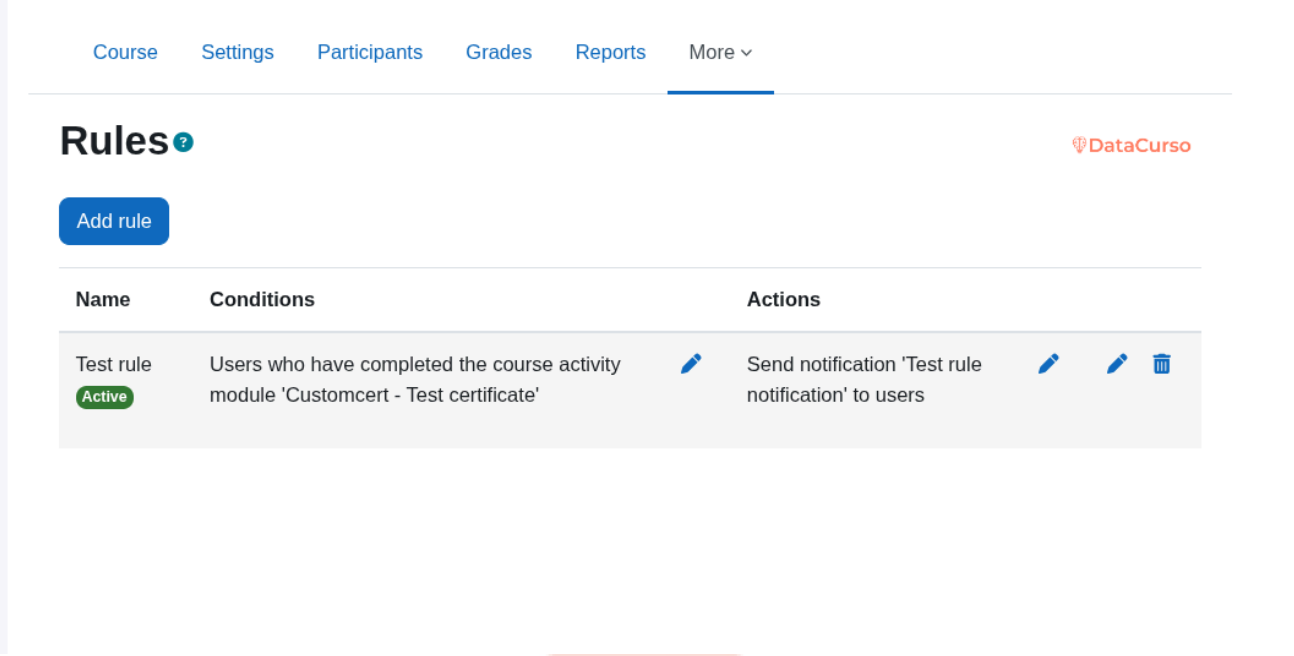
My rule is not running (nothing happens)

Most common cause: Moodle **cron** is not running reliably.

What to check:

1. Make sure the rule is **Active**.
2. Confirm the site has cron running (see **Prerequisites**).
3. Wait for the next scheduled run (some conditions/actions run on a schedule, not instantly).

Admin note: Some conditions are evaluated by scheduled tasks at specific times or intervals. If those tasks don't run, the rules won't execute.



I added a rule, but it matches nobody

Possible causes:

- The condition is too strict.
- The expected data is missing (no grades yet, completion isn't tracked, etc.).

What to do:

1. Start with a simple, easy-to-match condition (for example, `No course access` with a short period).
2. Verify that some learners actually meet the condition right now.
3. If you are using grade/completion conditions, confirm the activity has grades/completion configured.

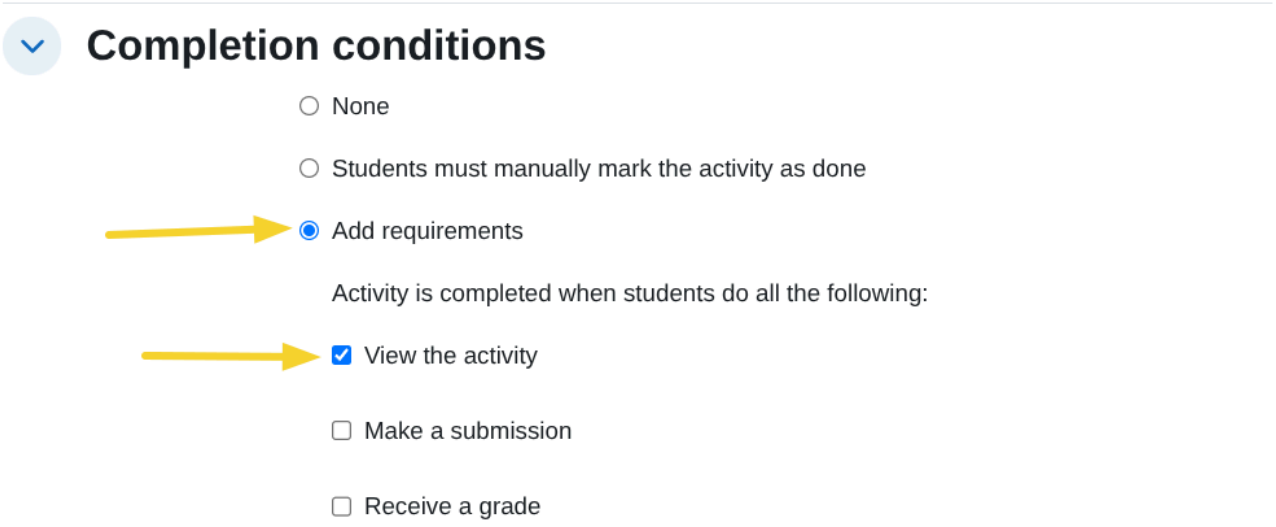
An activity does not appear in the selector (I can’t choose it)

This is common with conditions such as **Activity completed**, **Activity not completed**, **Grade in activity**, or **Passing grade**.

Most likely cause: the activity lacks the required completion and/or grading settings.

What to do:

1. Open the activity settings in Moodle.
2. Check **Activity completion** settings:
   - For completion-based rules, ensure completion tracking is enabled for that activity.
   - For grade-based rules, ensure completion/grade requirements are set so Moodle records the data you need.
3. Save the activity and return to Smart Rules AI.



I selected multiple roles in “Roles to notify” and got unexpected recipients

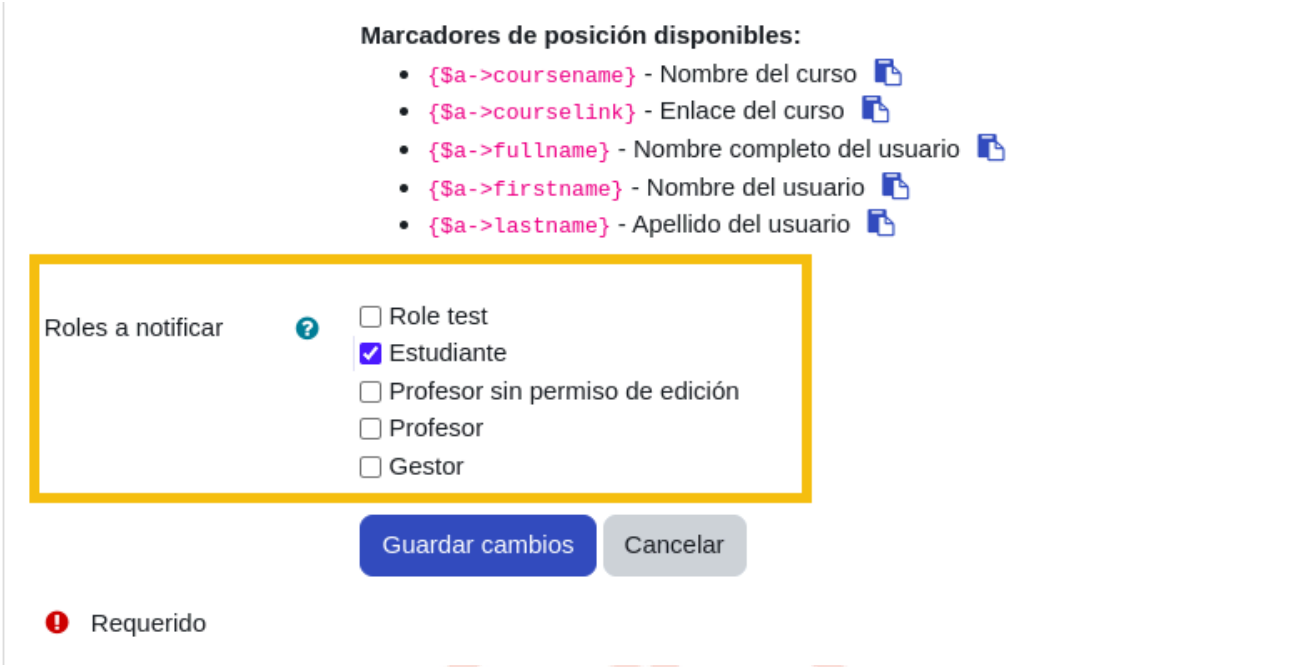
Smart Rules AI uses role-based logic to avoid duplicates:

- The matched user receives the notification only if they hold at least one of the selected roles.
- Other users in the course may receive the notification if they hold any of the selected roles that the matched user does not have.

What to do:

- For simple learner reminders, select only `Student`.
- Add `Teacher` only when you want teacher alerts.

See details in **Available actions → Send notification**.



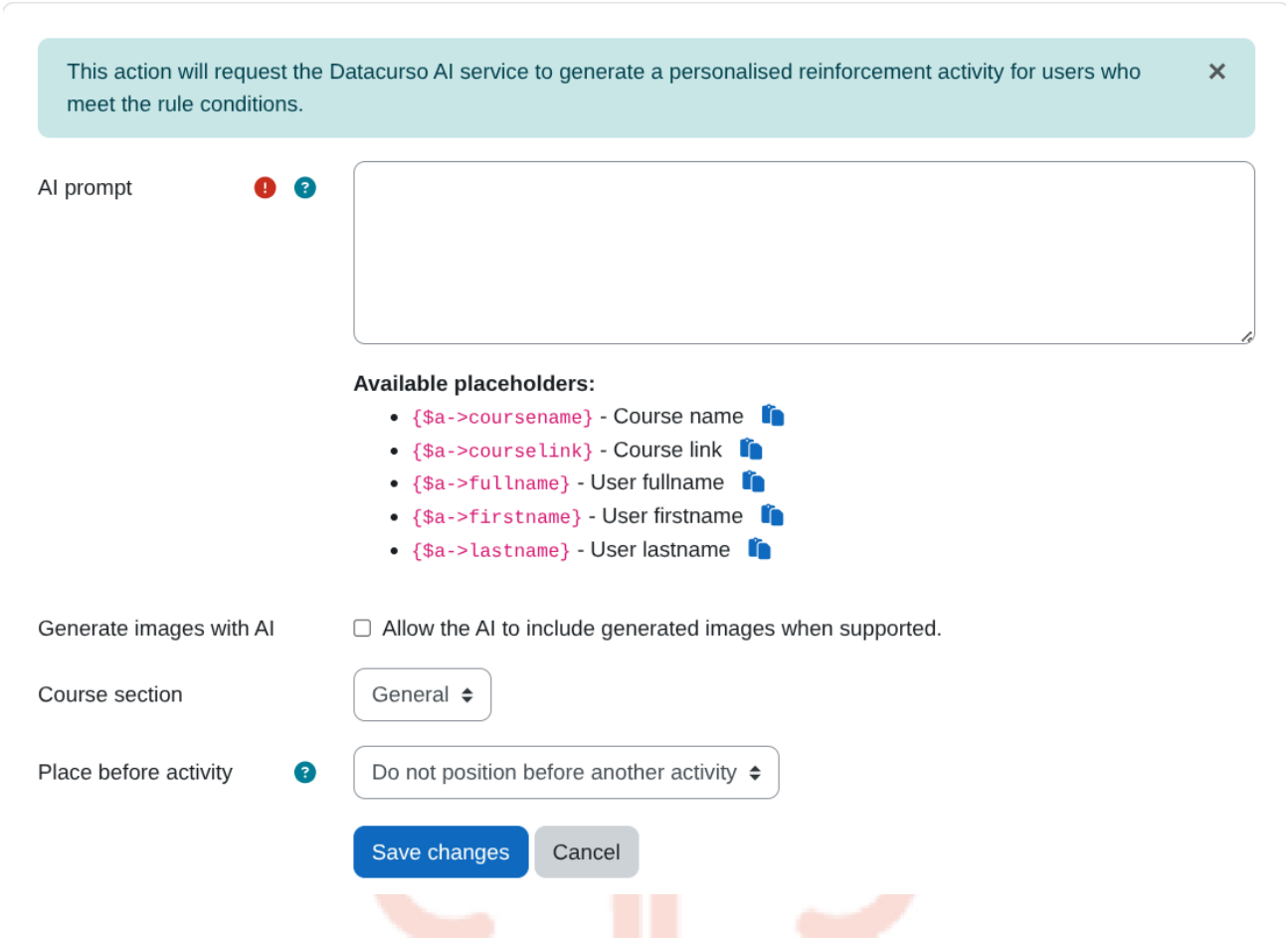
I enabled “Create AI reinforcement activity” but the action is missing or fails

This action requires additional plugins and setup.

What to check:

1. Moodle version is **4.5+**.
2. The **Restriction by user** plugin is installed and enabled.
3. The **Course Creator AI** plugin is installed and enabled.

See: **Prerequisites**.



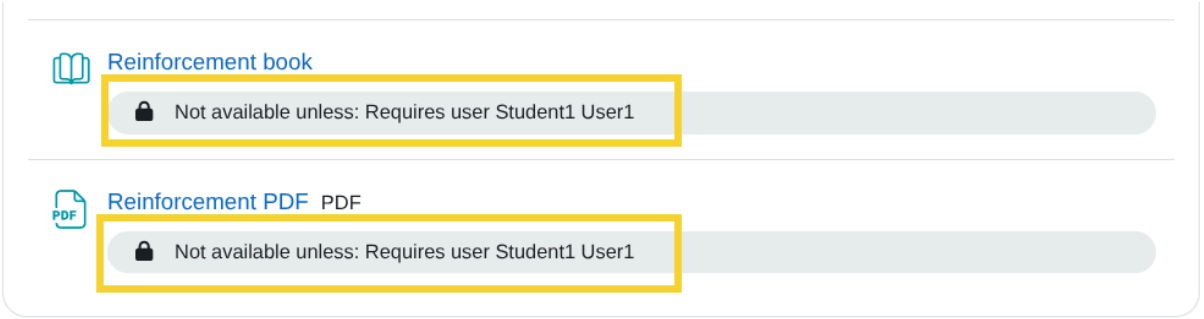
“Enable activity” does not unlock anything

Most common causes:

- The `Restriction by user` plugin is not installed or enabled.
- The selected activity is not configured in a way that allows restrictions to be toggled.

What to do:

1. Verify `Restriction by user` is installed and enabled (see **Prerequisites**).
2. Re-check that you selected the correct activity modules in the action configuration.
3. Confirm the rule is active and that learners actually match the condition.



⚠ NOTIFICATIONS NOT DELIVERED?

If your rule uses **Send notification** but users don’t receive messages, verify:

1. Moodle **cron** is running (rules must execute), and
2. Message delivery is configured correctly in **Configuration** (Message Hub + notification preferences + roles to notify).

Administrator guide

High-level hub for site administrators who configure Smart Rules AI. Start here to verify cron, set up messaging, and keep global settings healthy before courses use the plugin.

Configuration

Most Smart Rules AI setup happens **within each course** (when you create rules).
At the site level, the focus is ensuring scheduled tasks (cron) run reliably and optionally improving notification delivery (Message Hub).

Site-level configuration (Administrators)

1) Verify Moodle cron is running

Smart Rules AI depends on scheduled tasks. If cron is not running reliably, rules might never execute.

- Recommended: confirm your site's scheduled tasks are running as expected.
- If rules seem to "do nothing," cron is the first thing to check.

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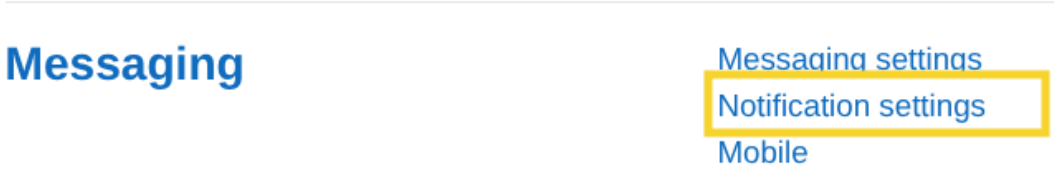
2) Optional: improve notification delivery with Datacurso Message Hub

Smart Rules AI can send Moodle notifications by default.
If you use **Datacurso Message Hub** (for WhatsApp/SMS via partners such as Twilio), enable it for Smart Rules AI notifications.

Step A — Open notification settings

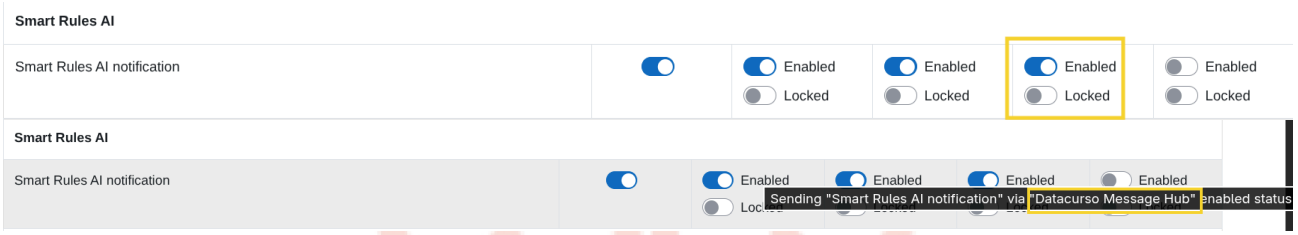
Go to:

Site administration → General → Messaging → Notification settings



Step B — Enable Datacurso Message Hub for Smart Rules AI notifications

In **Default notification preferences**, find **Smart Rules AI notification** and enable **Datacurso Message Hub**.



⚠ QUICK CHECK: “SEND NOTIFICATION” RUNS, BUT LEARNERS DON’T RECEIVE MESSAGES

This is usually caused by one of these:

- The recipient has notifications disabled in their preferences
- **Roles to notify** doesn’t include the intended audience (e.g., only `Teacher` selected; include `Student` for learner reminders)
- You expect WhatsApp/SMS delivery but **Message Hub is not enabled** for Smart Rules AI notifications (see steps above)

If rules never run at all, verify **cron** first.

Conditions

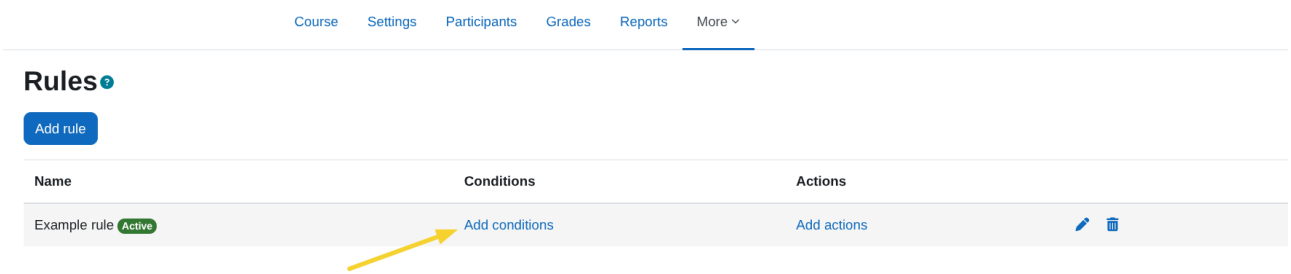
Conditions define **when** a rule should trigger and **who** it applies to.

- A **condition** *detects* users that match a criterion (completion, inactivity, grades, deadlines).
- The **action(s)** decide what happens next (send a notification, enable an activity, etc.).

This page explains how to add conditions and what each available condition does.

Adding conditions to the rule

1. Click on the link `Add conditions`.



2. A view similar to the following will appear with the list of available conditions from which we can select the one we want to add.
   The information about each condition can be found in the following section **Available conditions**.

Conditions

Back to list rules

- Activity completed +
- Course inactivity in time intervals +
- Grade in activity +
- Activity not completed +
- No course access +
- Activity completion with passing grade +

Activity completed

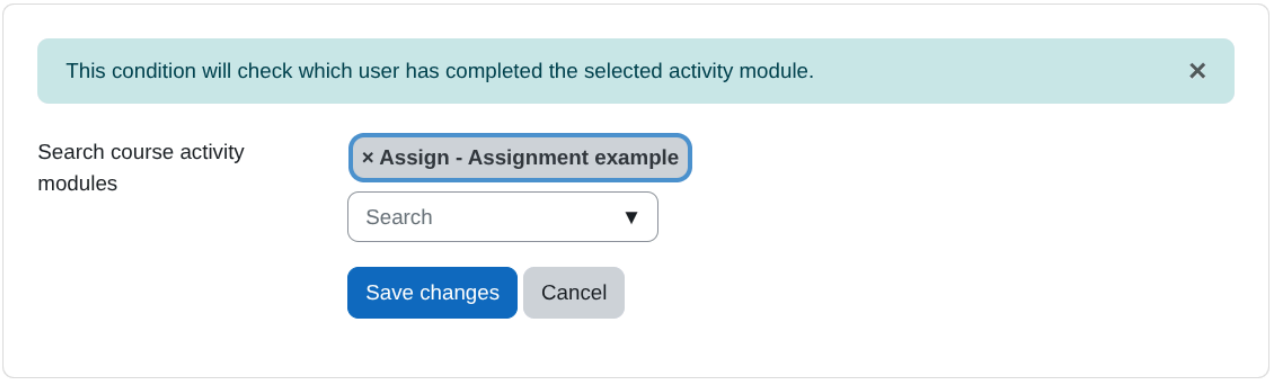
Description

This condition allows you to easily identify students who have completed a specific activity in the course. It can be configured to send automatic reminders to those who have completed the activity, helping you maintain their commitment and reduce inactivity.

> In practice: use this when you want to react **after** someone finishes an activity (for example: congratulate them, unlock content, or send the next-step instructions).

Condition configuration

1. **Search course activity modules**: From this search field we can select the activity module that we want to verify that it has been completed.



Course inactivity at time intervals

Description

This condition makes it easy to identify students who have not accessed the course for specific periods of time from a base date, such as their enrolment date. You can configure it to send automatic reminders to those who have gone 7, 15, 22 days (or any desired interval) without entering the course, helping you maintain engagement and reduce inactivity.

Whether by evaluating custom intervals or by recurring monitoring at a fixed cadence, this condition helps keep students engaged and active in the course.

This condition runs recurrently every day at `00:00`, `06:00`, `12:00`, and `18:00` via the scheduled task `local_coursedynamicrules\task\course_inactivity_task`.

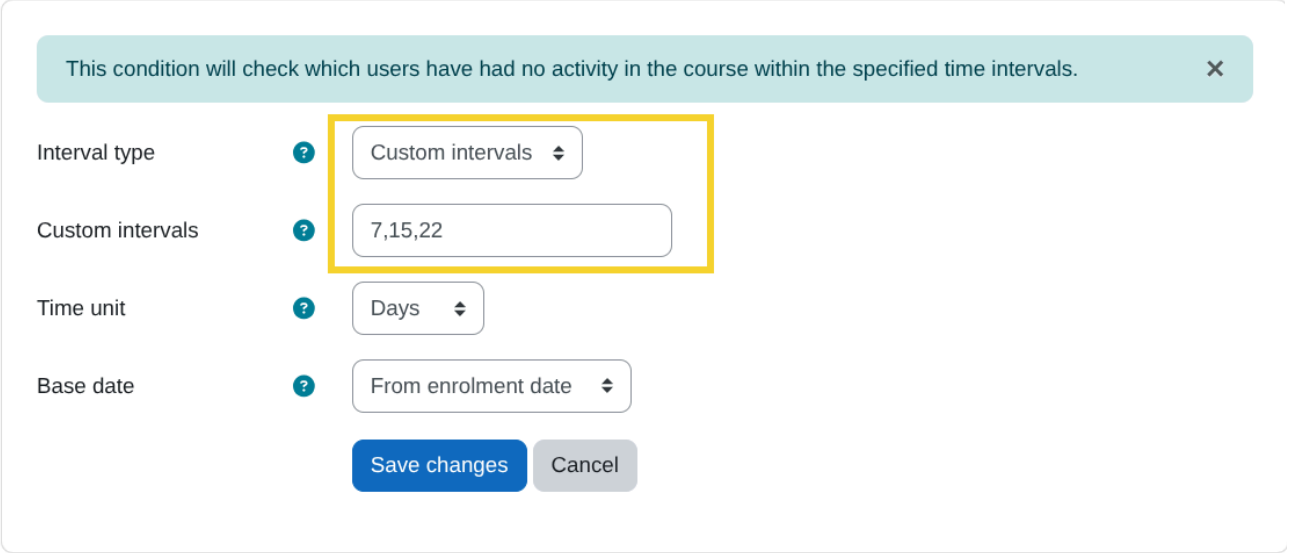
IMPORTANT! Do not modify this scheduled task's execution times, as it may cause inconsistencies when evaluating the condition.

> Simple way to choose:
>
> - Use **Custom intervals** when you want specific checkpoints (like 7, 15, 22).
> - Use **Recurring interval** when you want a steady cadence (like every 7 days).

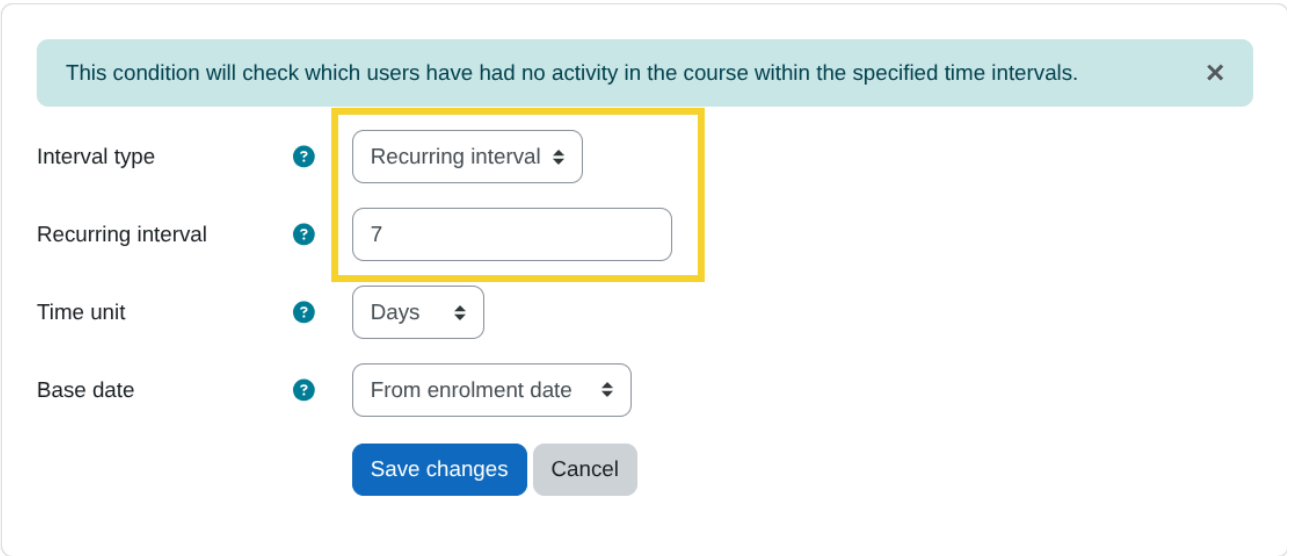
Condition configuration

1. **Custom intervals**:
   Allows you to enter multiple time intervals separated by commas `(,)`, for example: `7,15,22`. The condition will be evaluated at each specified

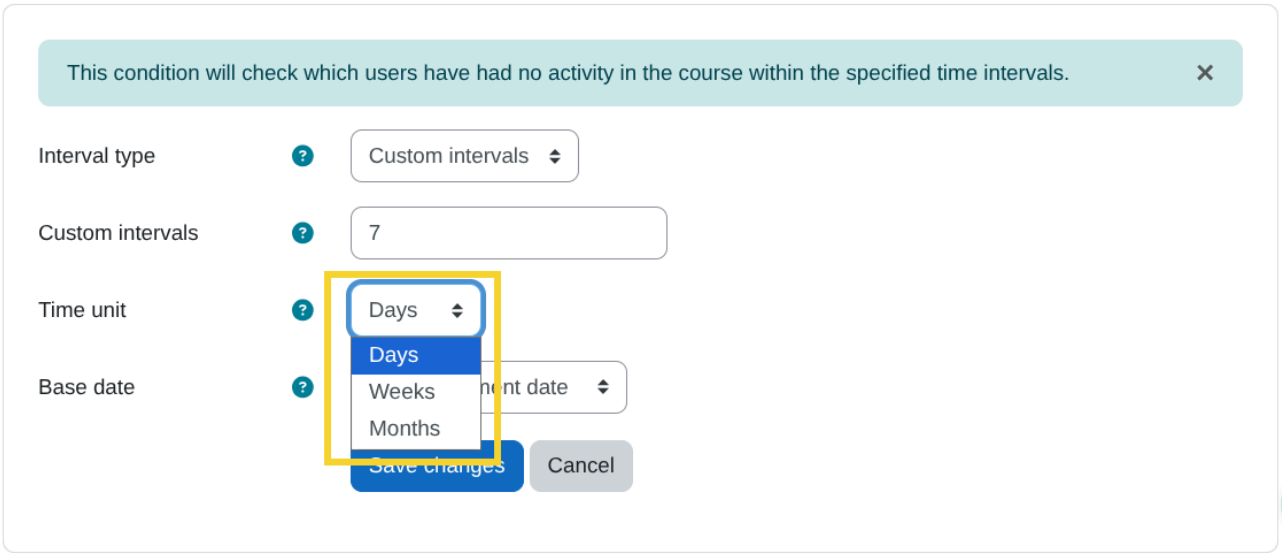
interval, in this case every 7, 15, and 22 `days` or `weeks` or `months`, depending on the selected time unit.



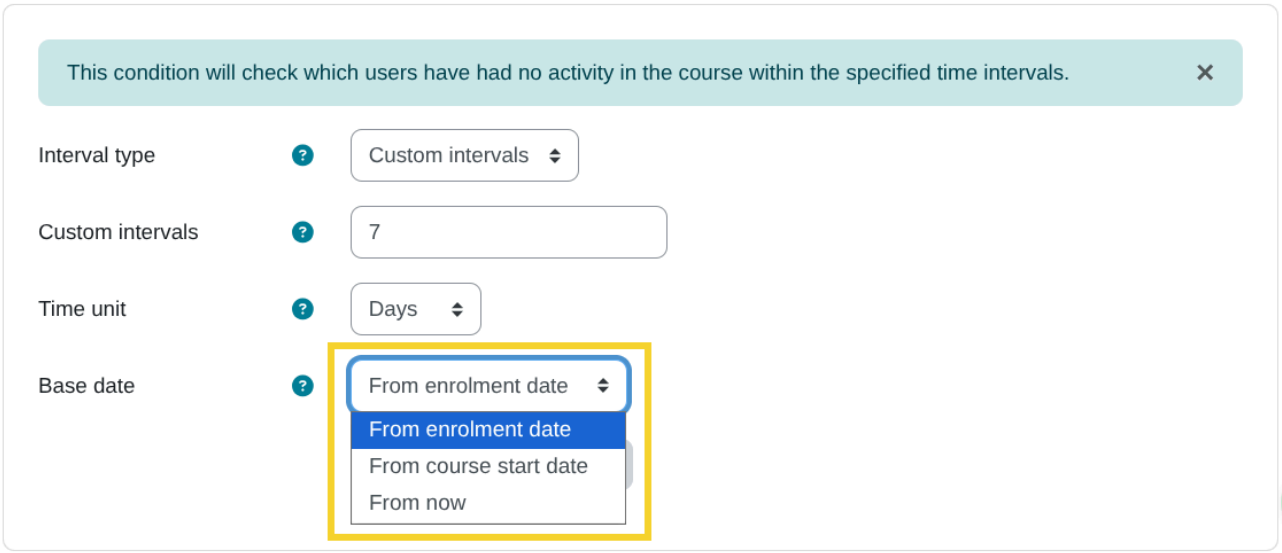
2. **Recurring interval**:
   Allows you to enter a single interval so the condition is evaluated repeatedly at the specified cadence, for example: `7`, which means the evaluation runs every 7 `days` or `weeks` or `months`, depending on the selected time unit.



3. **Time unit**:
   Select the unit of time in which the condition will be evaluated. Available options: `days`, `weeks`, `months`.



4. **Base date**:
   Select the base date from which the condition will be evaluated. Available options:
   - `From enrolment date`: Intervals are counted from each user's enrolment date in the course.
   - `From course start date`: Intervals are counted from the course start date.
   - `From now`: Intervals are counted from the date the rule is created.



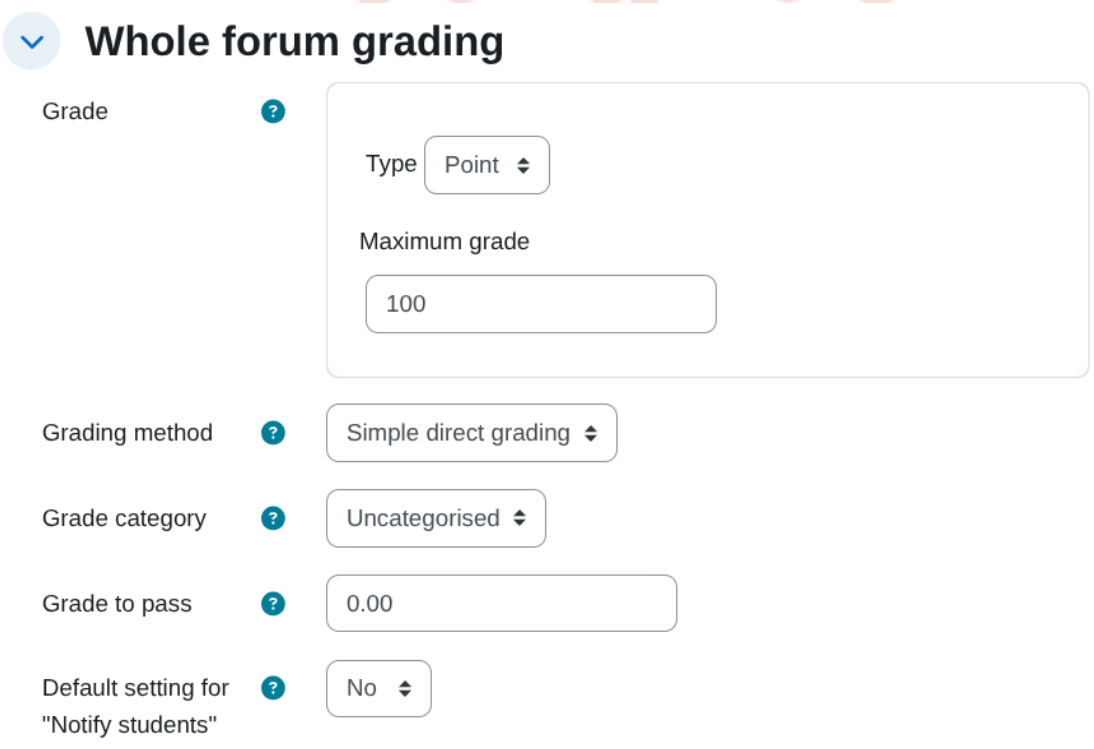
Grade in activity

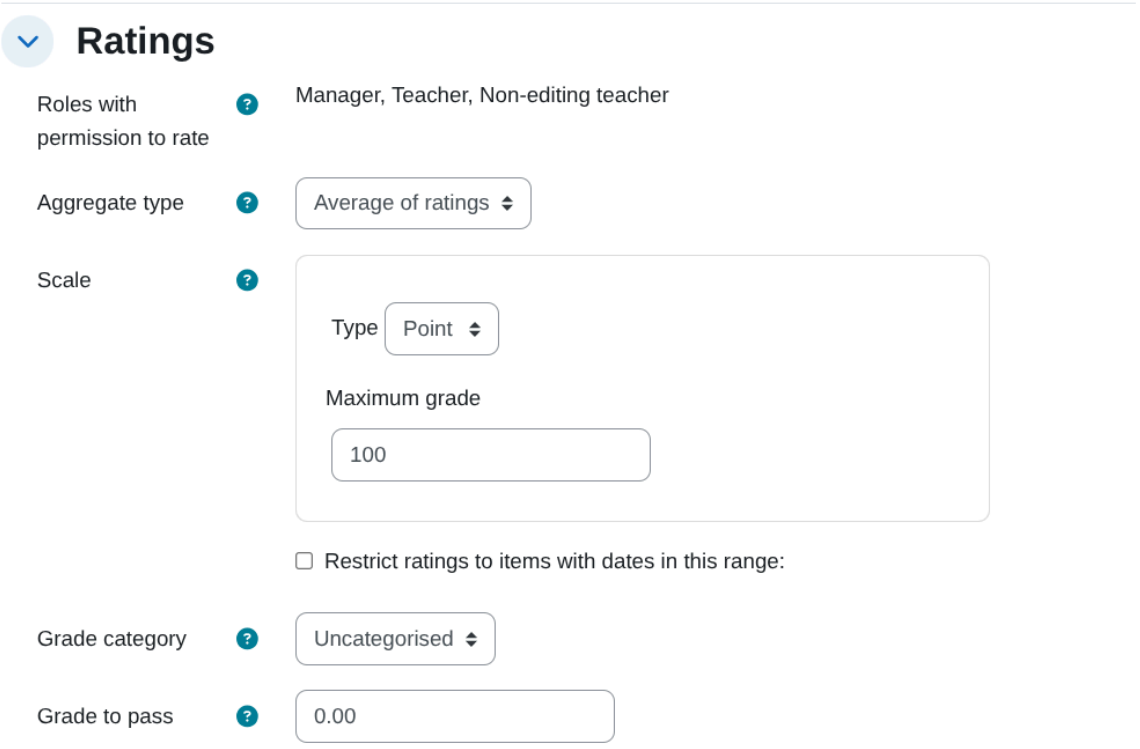
Description

Use this condition to evaluate users' grades in a gradable activity. If the selected activity has multiple grade items, a dropdown will be shown with the available items.

For example, in the `Forum` module, available grade items may include:

- Whole forum grading
- Grades

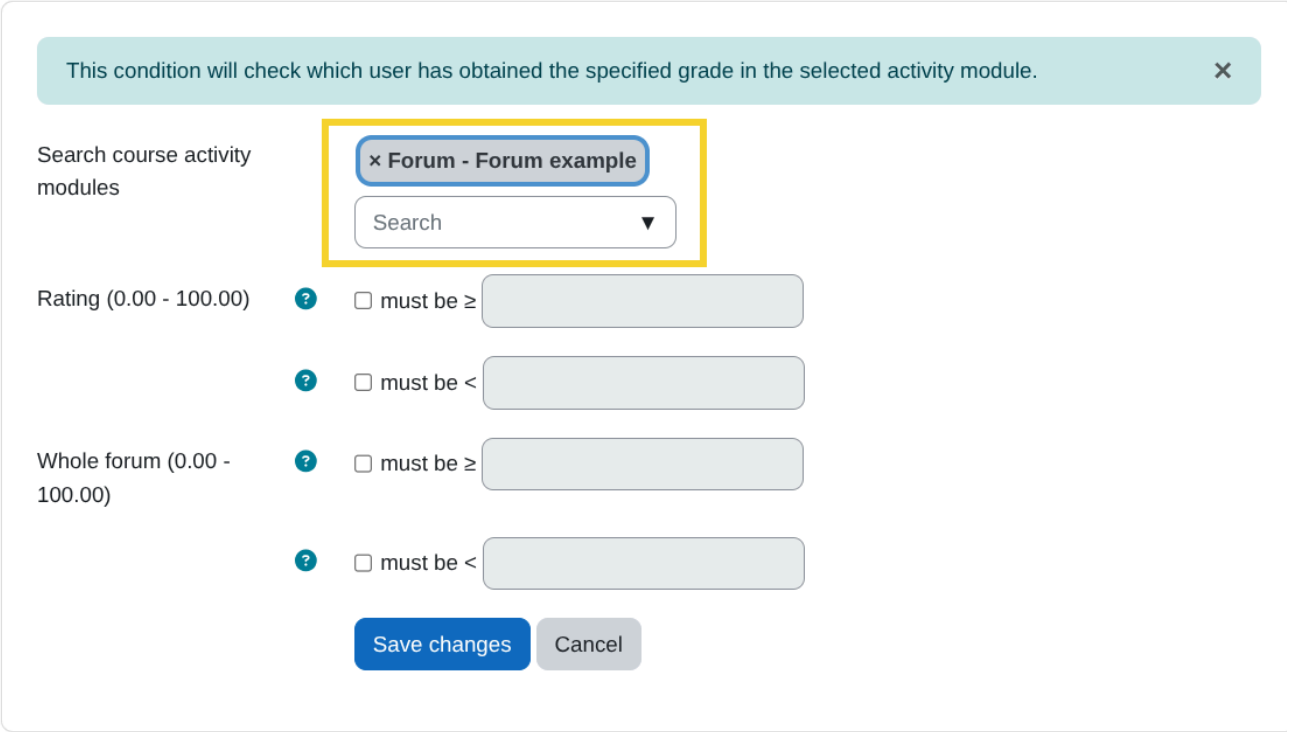




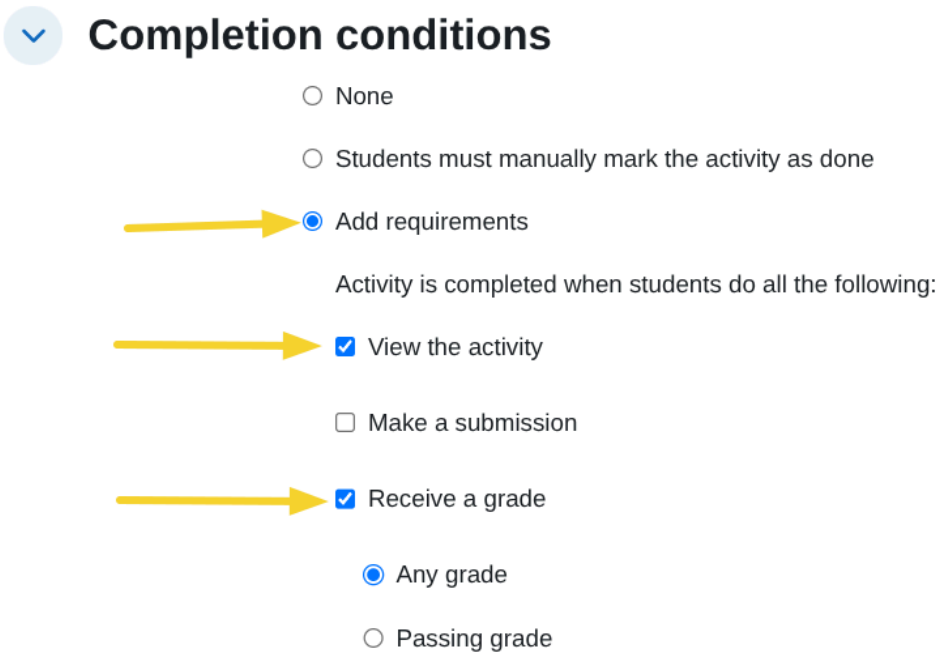
> In practice: this is the condition you use for “low score intervention” or “high score reward”.

Condition configuration

1. **Search course activity modules**:
   From this search field, select the activity module where you want to check grades.

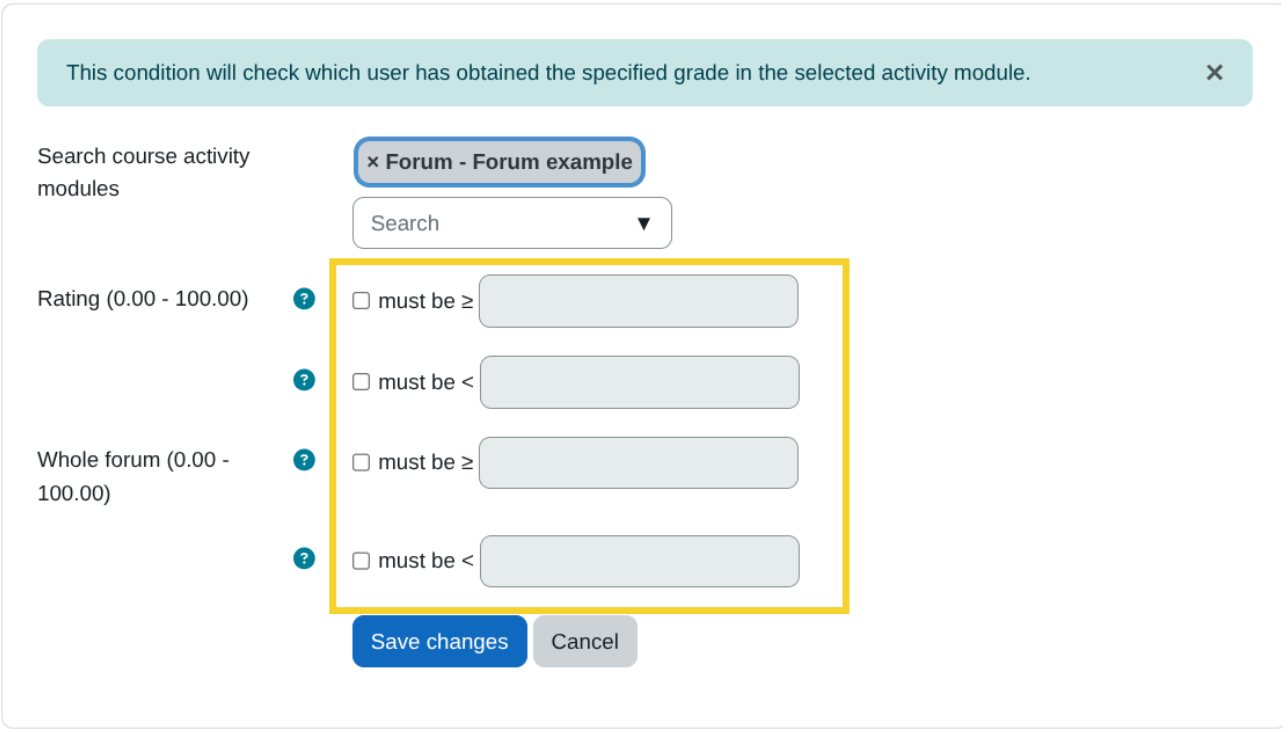


Note: Only activity modules that have at least the following setting in the `Activity completion` section will appear:



2. **Comparison options**:
   After selecting the activity, define the comparison conditions based on the available grade items. Two options are provided:
   - `Must be ≥`: The condition is met if the user's grade is greater than or equal to the specified value.

- `Must be <`: The condition is met if the user's grade is less than the specified value.



Activity not completed

Description

Use this condition to evaluate whether a user has not completed a specific activity after a given period of time.

This condition runs recurrently via the scheduled task `local_coursedynamicrules\task\no_complete_activity_task`, which by default runs every minute.

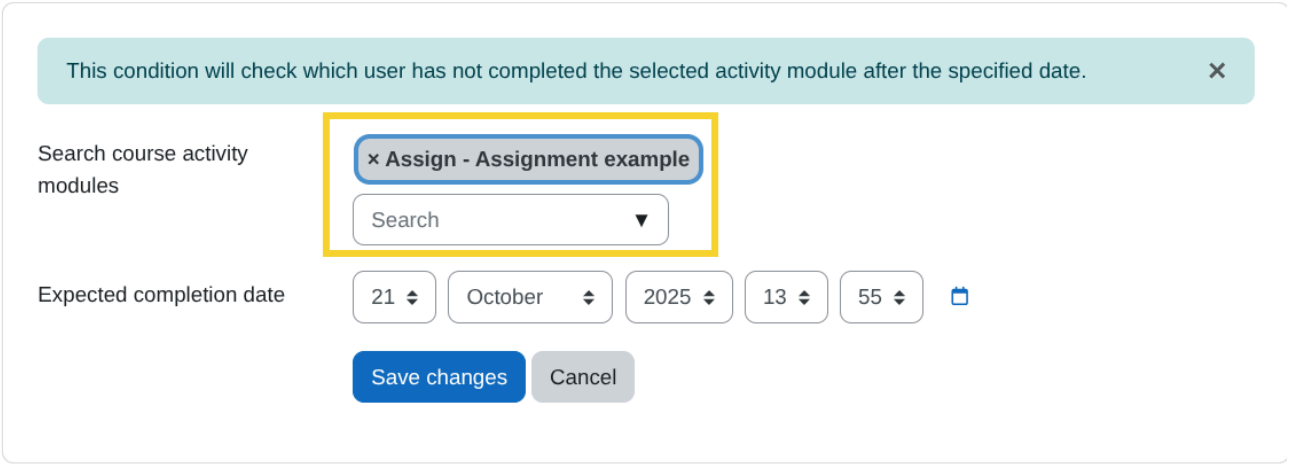
The condition will only evaluate once when the time specified in the configuration has elapsed, as detailed in the section Condition configuration.

After the condition is evaluated and the rule's actions are executed, the rule will be automatically deactivated.

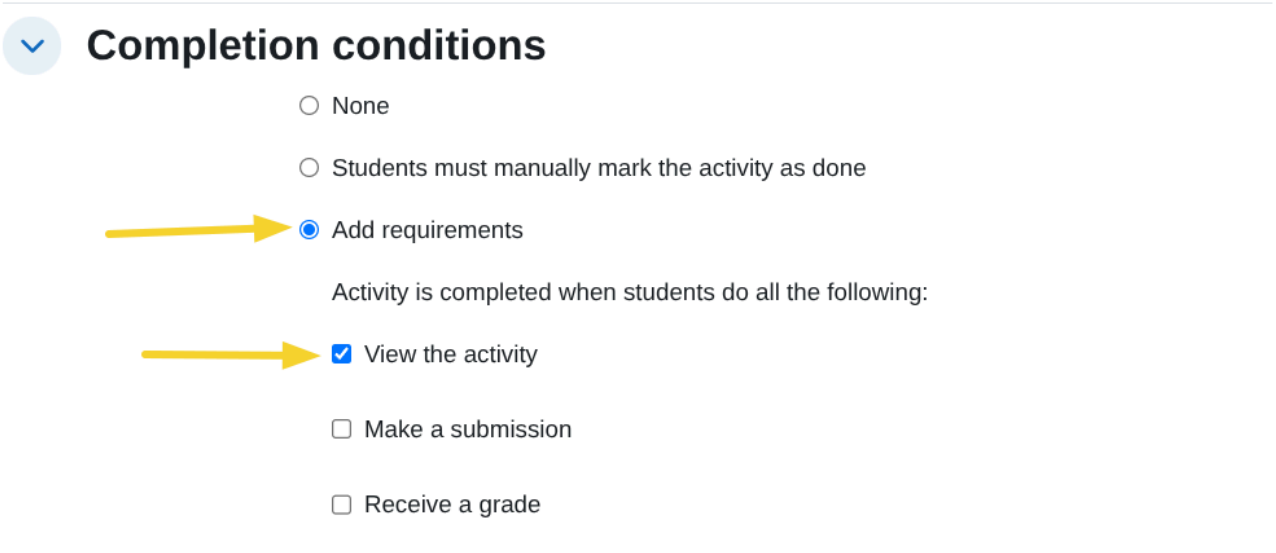
> In practice: use this for “deadline follow-up” rules. It triggers **once**, when the expected completion date is reached.

Condition configuration

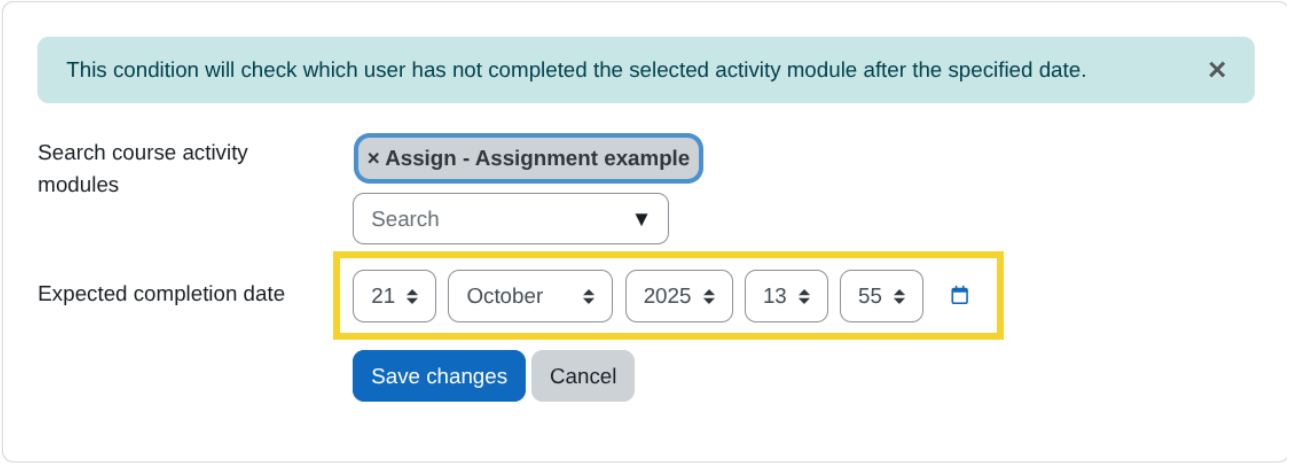
1. **Search course activity modules**:
   From this search field, select the activity module you want to verify has not been completed.



Note: Only activity modules that have at least the following setting in the `Activity completion` section will appear:



2. **Expected completion date**:
   Define the date by which you expect users to have completed the activity.



No course access

Description

Use this condition to evaluate which users have not accessed a course within a specified period of time.

This condition runs recurrently via the scheduled task `local_coursedynamicrules\task\no_course_access_task`, which by default runs every minute.

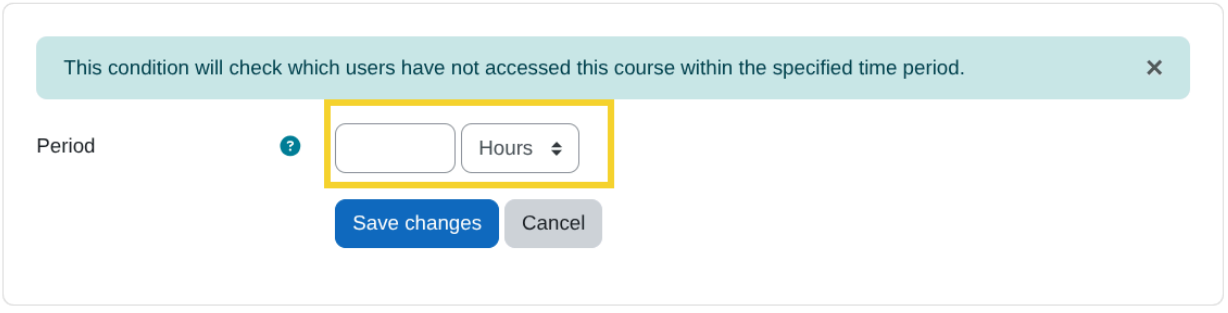
Once the condition is added to a rule, users matching the condition will start being evaluated and the rule's actions will be executed.

The condition will be re-evaluated each time the configured time period has passed, as described in the Condition configuration section below.

> In practice: use this when you want “hasn’t entered the course in X time” checks (rolling window).

Condition configuration

1. **Period**:
   Define the time period in which you expect users to have accessed the course. Enter the numeric value in the first field and select the time unit in the second field.



Activity completion with passing grade

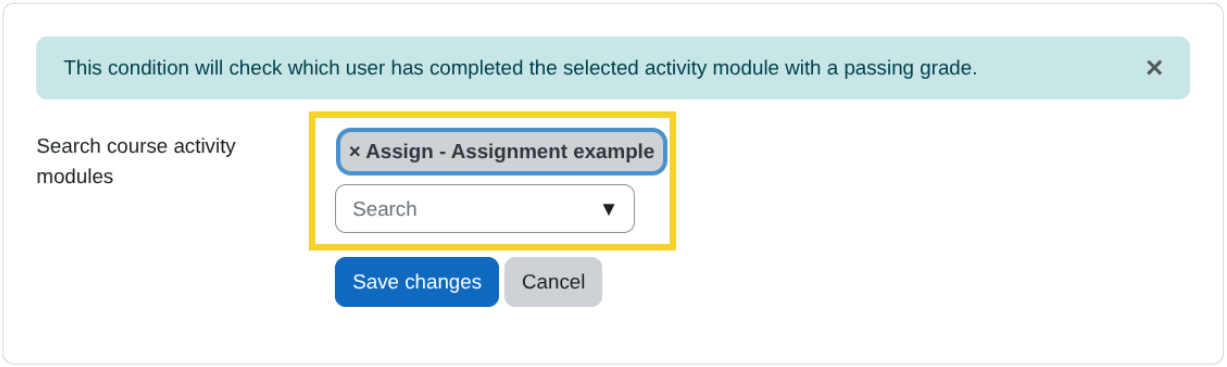
Description

Use this condition to evaluate whether users have completed an activity with a passing grade.

> In practice: use this when you only want to trigger actions after a learner **passes**, not just completes.

Condition configuration

1. **Search course activity modules**:
   From this search field, select the activity module where you want to verify grades.



Note: Only activity modules that have at least the following setting in the `Activity completion` section will appear:

Completion conditions

- None
- Students must manually mark the activity as done
- Add requirements

Activity is completed when students do all the following:

- [x] View the activity
- [ ] Make a submission
- [x] Receive a grade
  - Any grade
  - Passing grade

Actions

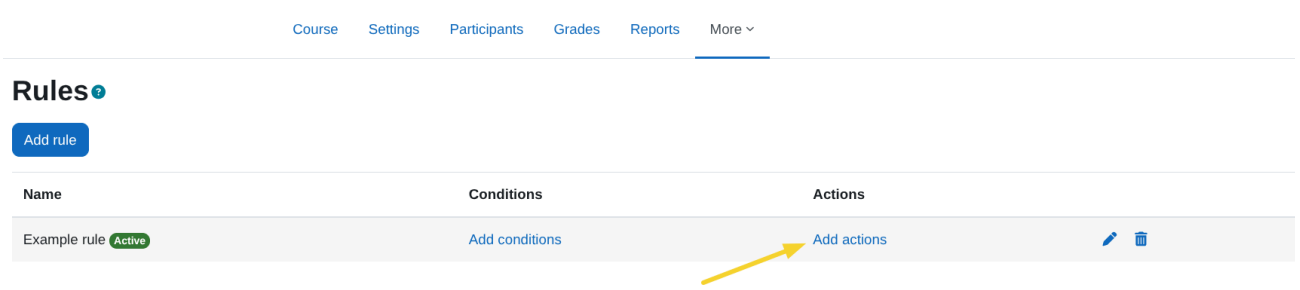
In Smart Rules AI, an **action** defines **what happens** after a condition matches one or more users.

- Conditions decide **who** is matched.
- Actions decide **what to do** for those matched users (send a notification, enable an activity, create reinforcement content, etc.).

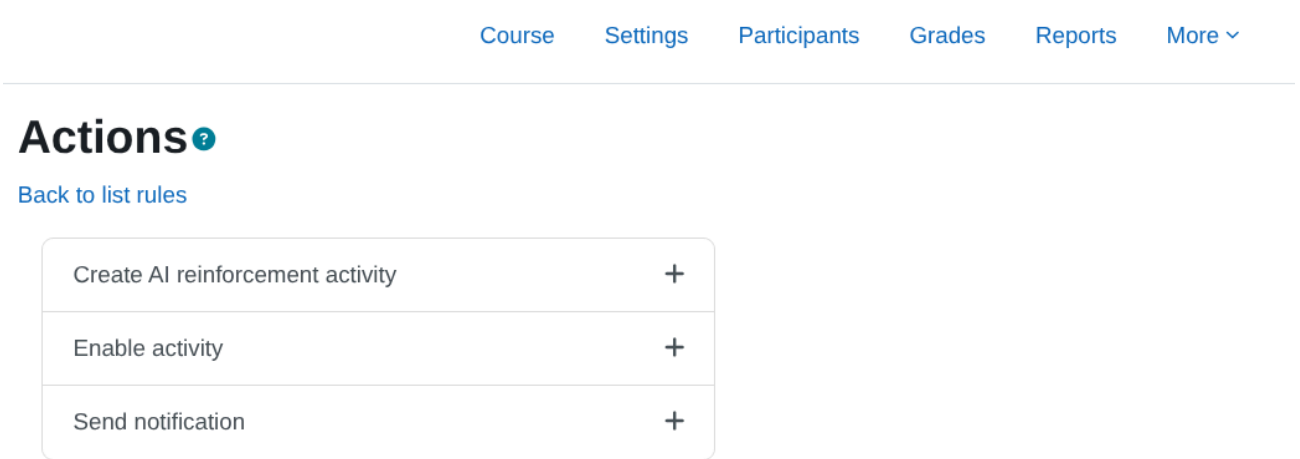
This page explains how to add actions and describes each available action.

Add actions to the rule

1. Click the `Add actions` link.



2. A view like the following will appear with the list of available actions. Select the one you want to add.
   Details of each action can be found in the next section **Available actions**.



What happens when the action runs

- The action sends the configured prompt to the Datacurso AI service via the `Course Creator AI` plugin and receives the activity definition.
- If the course has any AI context configured (e.g., instructional model or syllabus), this context will be used to create an activity better aligned with the course.
- A new course module is created and placed in the selected section and position.
- The new activity is made visible and is restricted to the matched user using the `Restriction by user` condition.

Create AI reinforcement activity (Only for moodle 4.5 or higher)

Description

This action will request the Datacurso AI service to generate a personalised reinforcement activity for users who meet the rule conditions.

> In practice: use this when you want to automatically provide extra practice to learners who are inactive or struggling.

Pre-requisites

1. Moodle 4.5 or higher
2. Have the `Restriction by user` plugin installed and enabled, which can be downloaded for free from: https://moodle.org/plugins/availability_user.
3. Have the `Course Creator AI` plugin installed and enabled, which can be downloaded for free from: https://moodle.org/plugins/local_coursegen.

Action configuration

1. **Prompt**:
   Enter the instruction that the AI will use to generate the reinforcement activity.

   - You can include placeholders to personalise the prompt for each user. Available placeholders:

- `{$a->coursename}` – Course name
- `{$a->courseurl}` – Course URL
- `{$a->fullname}` – User full name
- `{$a->firstname}` – User first name
- `{$a->lastname}` – User last name

> Tip: A good prompt explains **what to reinforce** and **what the learner should practice**.

2. **Generate images**:
   If enabled, the AI may generate and include images in the created activity when supported by the target activity type.

3. **Section**:
   Select the course section where the activity will be created.

4. **Insert before**:
   Optionally choose an existing activity to insert the new activity before. If set to `None`, the new activity will be appended at the end of the selected section.

This action will request the Datacurso AI service to generate a personalised reinforcement activity for users who meet the rule conditions.

AI prompt

Available placeholders:

- `{$a->coursename}` - Course name
- `{$a->courselink}` - Course link
- `{$a->fullname}` - User fullname
- `{$a->firstname}` - User firstname
- `{$a->lastname}` - User lastname

Generate images with AI

Allow the AI to include generated images when supported.

Course section

General

Place before activity

Do not position before another activity

Save changes Cancel

Enable activity

Description

Use this action to enable specific activities in the course for users who meet the rule's conditions.

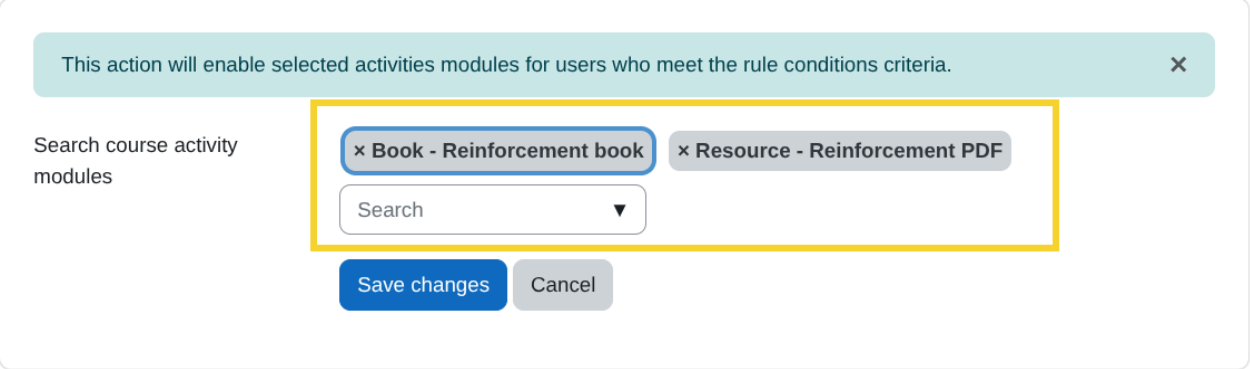
> In practice: this is how you “unlock” an activity for a specific group of users matched by a condition.

Pre-requisites

1. Have the `Restriction by user` plugin installed and enabled, which can be downloaded for free from: https://moodle.org/plugins/availability_user.

Action configuration

1. **Search course activity modules**:
   From this search field, select the activity modules you want to enable.



The selected activities will only be available to users who meet the rule's conditions. In the course view for roles with the necessary permissions (teachers, administrators, etc.), the following information will be shown indicating the users for whom the activity is enabled:

Reinforcement book

Not available unless: Requires user Student1 User1

Reinforcement PDF PDF

Not available unless: Requires user Student1 User1

Send notification

Description

Use this action to send notifications to users who meet the rule's conditions.

> In practice: this is the most common action for reminders, encouragement, and teacher alerts.

Improve notification delivery

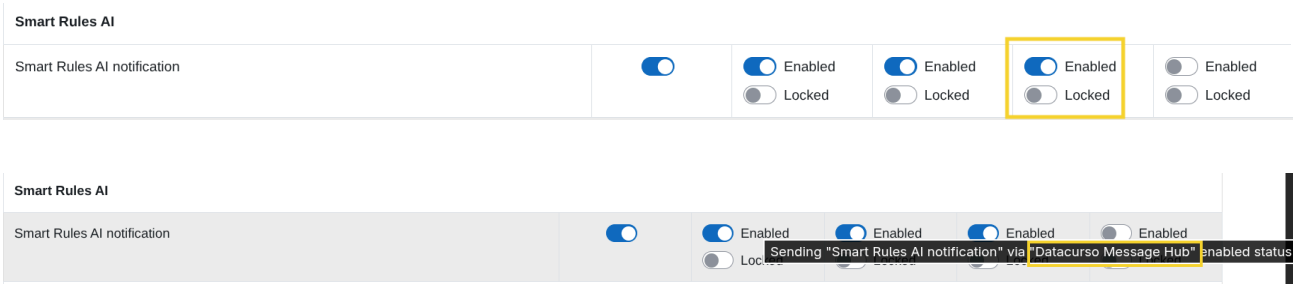
Enhance your notifications with our **Datacurso Message Hub** plugins, which let you send notifications via WhatsApp and SMS using providers like Twilio.
Click here to purchase and activate now!

For more information, visit the documentation page:
https://docs.datacurso.com/index.php?title=Message_Hub

Configure notification sending (Required only if you have the Datacurso Message Hub plugins installed)

1. Go to `Site administration > General > Messaging > Notification settings`

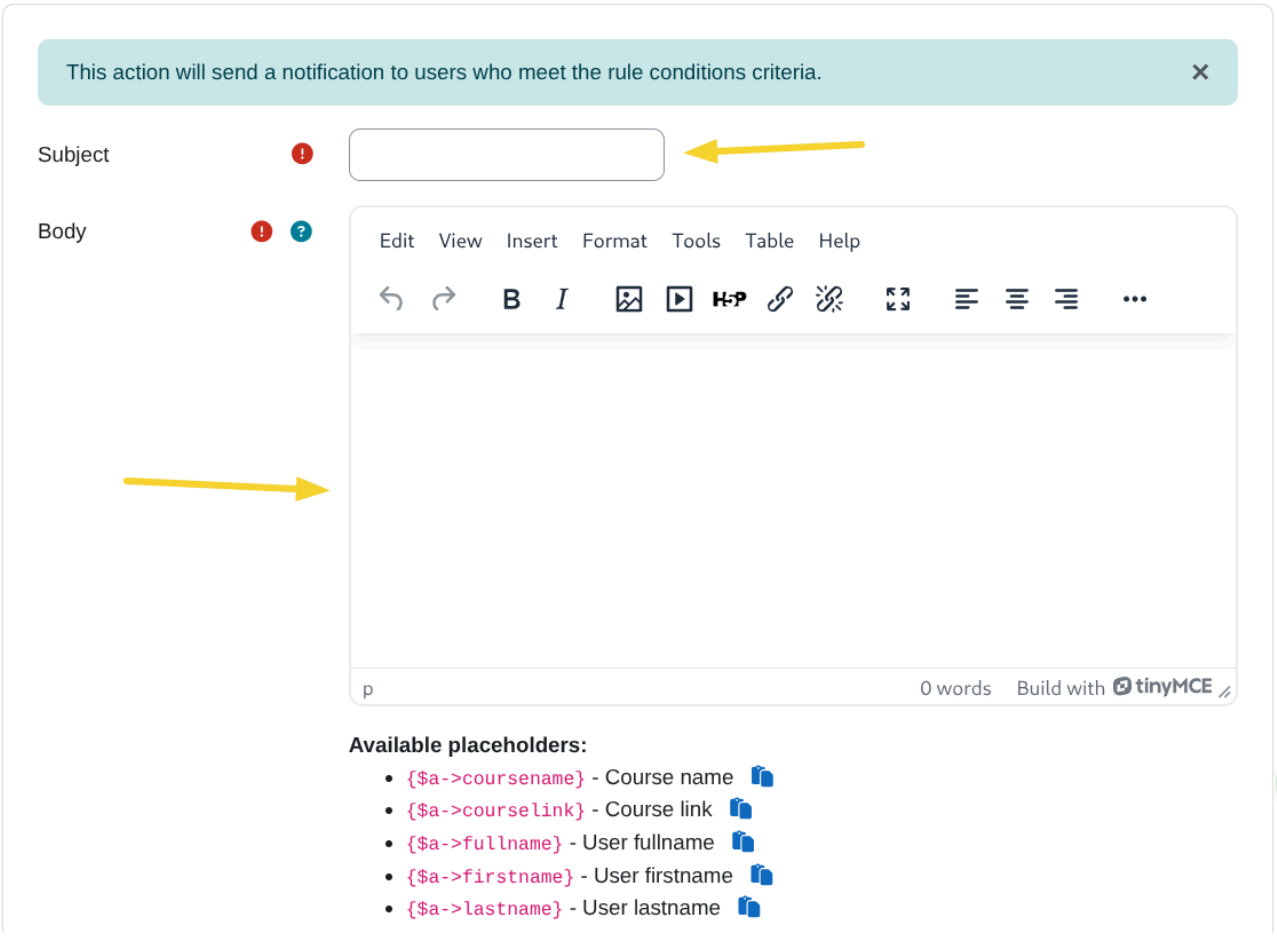
2. In the `Default notification preferences` section, find `Smart Rules AI notification` and enable the option for `Datacurso Message Hub`.



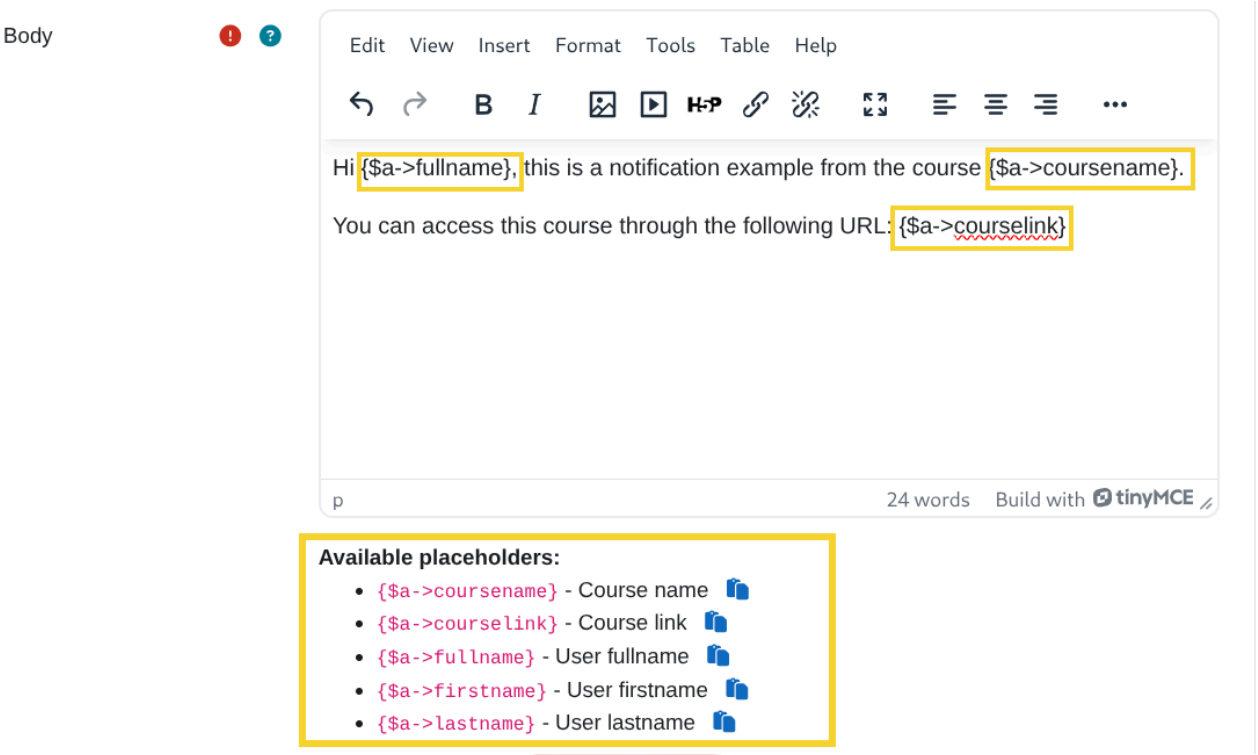
Action configuration

1. **Subject**:
   Define the notification subject.

2. **Body**:
   Define the notification body.



3. **Placeholders**
   You can use placeholders in the notification body to personalize the message for each user. Available placeholders:
   - `{$a->coursename}` - Course name
   - `{$a->courselink}` - Course link
   - `{$a->fullname}` - User full name
   - `{$a->firstname}` - User first name
   - `{$a->lastname}` - User last name

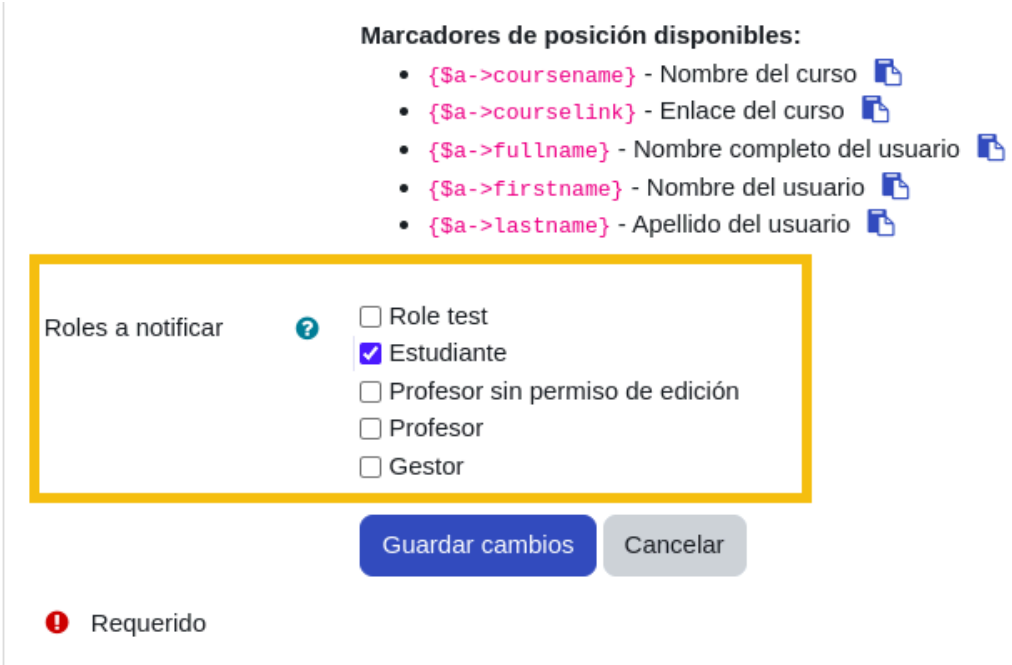


4. **Roles to notify**:
   Choose the course roles that determine who receives the notification when the rule matches a user.

   - The matched user receives the notification only if they hold at least one of the selected roles in the course.
   - Additionally, other course users who hold any of the selected roles that the matched user does not hold will also receive the notification.
   - Roles already held by the matched user are excluded from the "other recipients" search to avoid duplicate delivery.

   Example:

- Selected roles: `Student`, `Teacher`.
- If the matched user is a `Student`, they receive the notification. Other recipients will be users with the `Teacher` role only (other `Students` will not receive this notification from this action run).
- If the matched user has none of the selected roles, they do not receive the notification, but users with any of the selected roles will.



Use cases (Templates)

This page provides ready-to-use rule templates you can copy and adapt. Each template follows the same pattern:

Condition (If…) → Action (Then…)

> Tip: If you are new, start with **Template 1** (simple and reliable).

Template 1 — Inactivity reminder (No course access → Send notification)

Goal

Send a friendly reminder when a learner hasn’t accessed the course for a number of days.

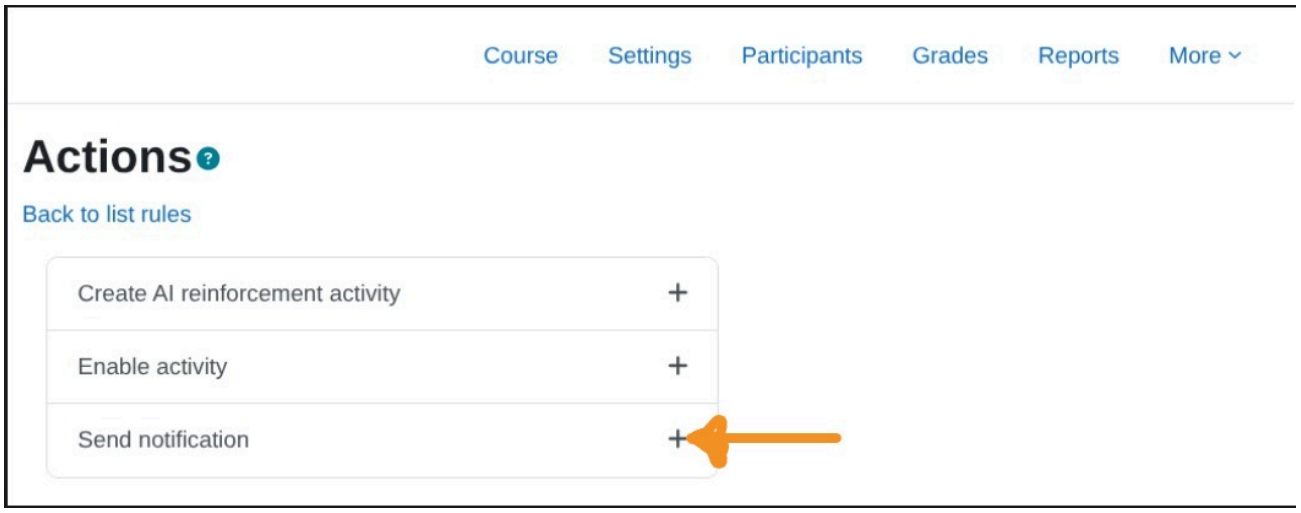
When to use it

- Engagement drops and learners “disappear”
- You want an automatic nudge without manual tracking

Rule setup

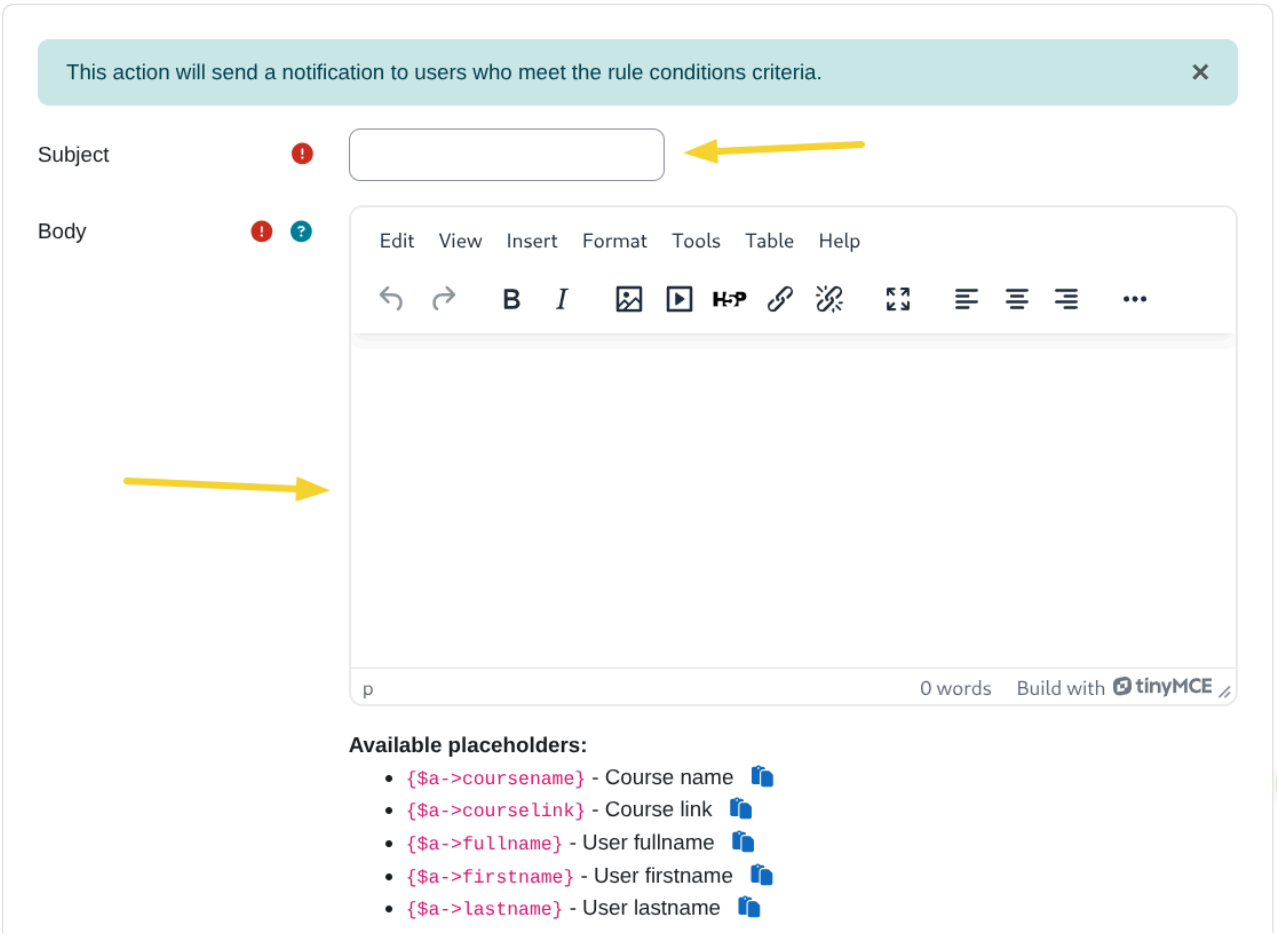
Condition: `No course access`

- Period: `7 days` (or your preferred interval)

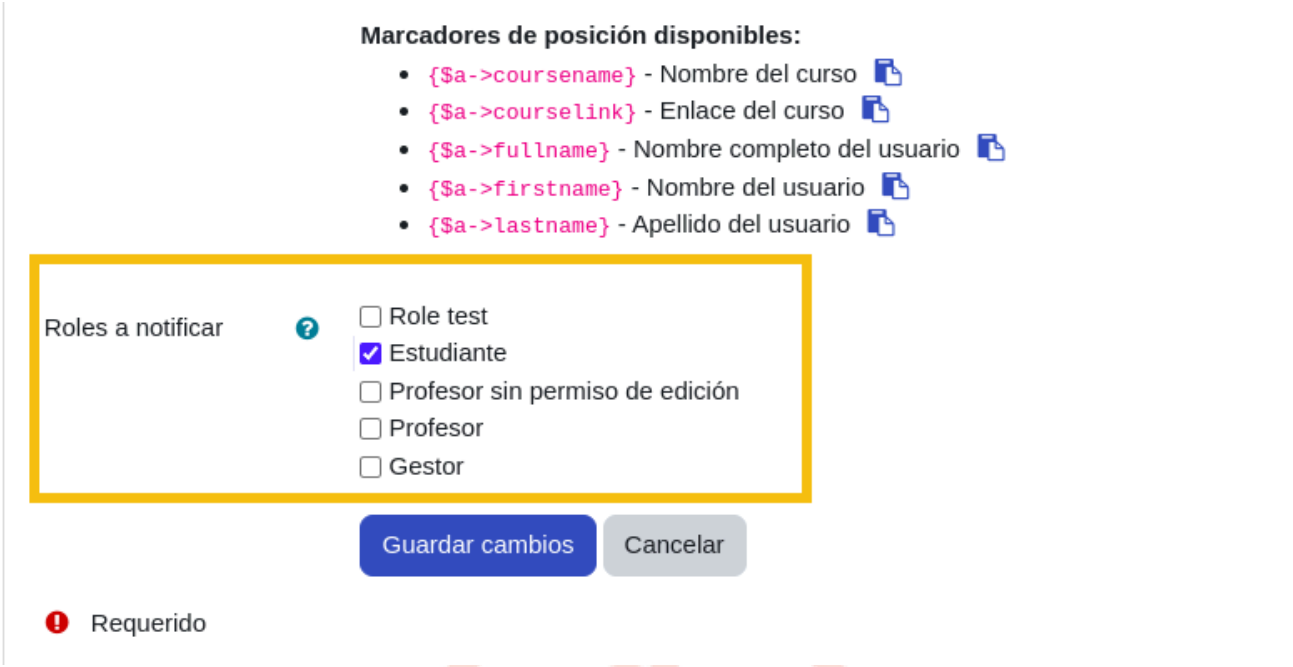


Action: `Send notification`

- Subject: `We miss you in {$a->coursename}`
- Body: `Hi {$a->firstname}, we noticed you haven't accessed the course recently. Continue here: {$a->courselink}`



Roles to notify: `Student`
(Optional: add `Teacher` if you want teachers notified too.)



Template 2 — “You passed!” message (Activity completion with passing grade → Send notification)

Goal

Congratulate learners automatically when they pass an activity.

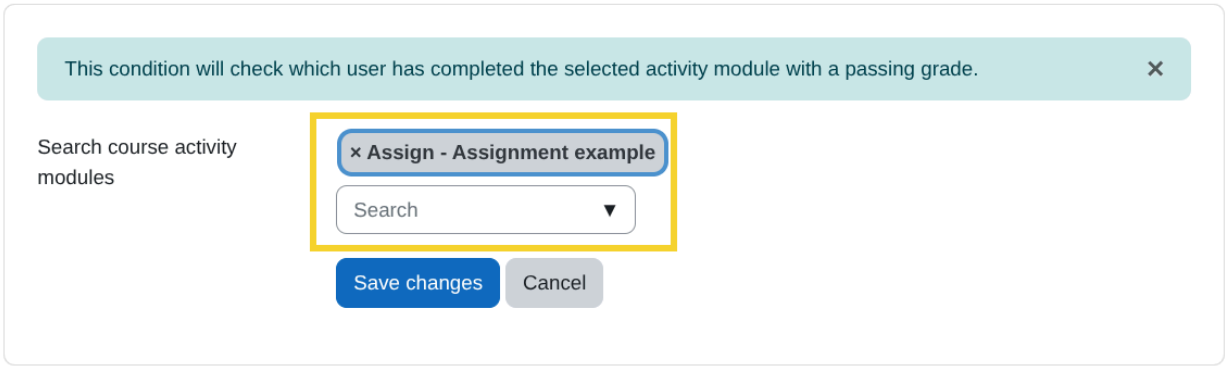
When to use it

- Reinforce progress and increase motivation
- Celebrate completions without extra teacher effort

Rule setup

Condition: `Activity completion with passing grade`

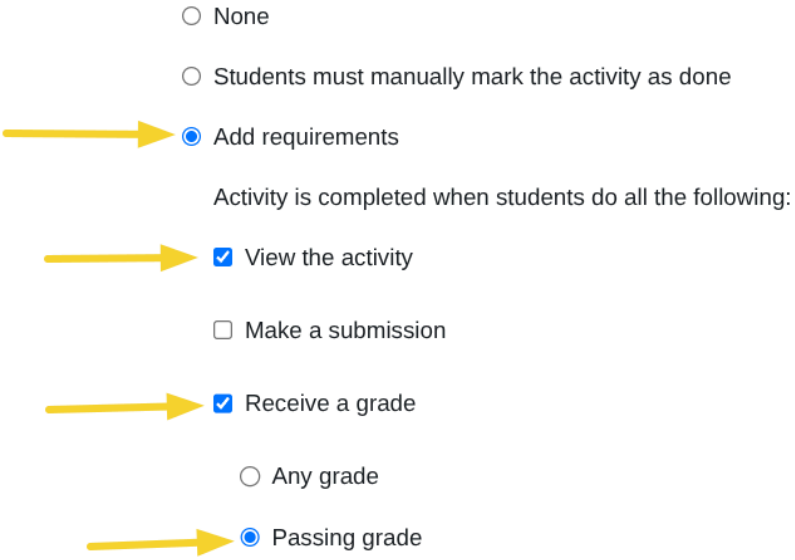
- Select the target activity (the one that has a passing grade)



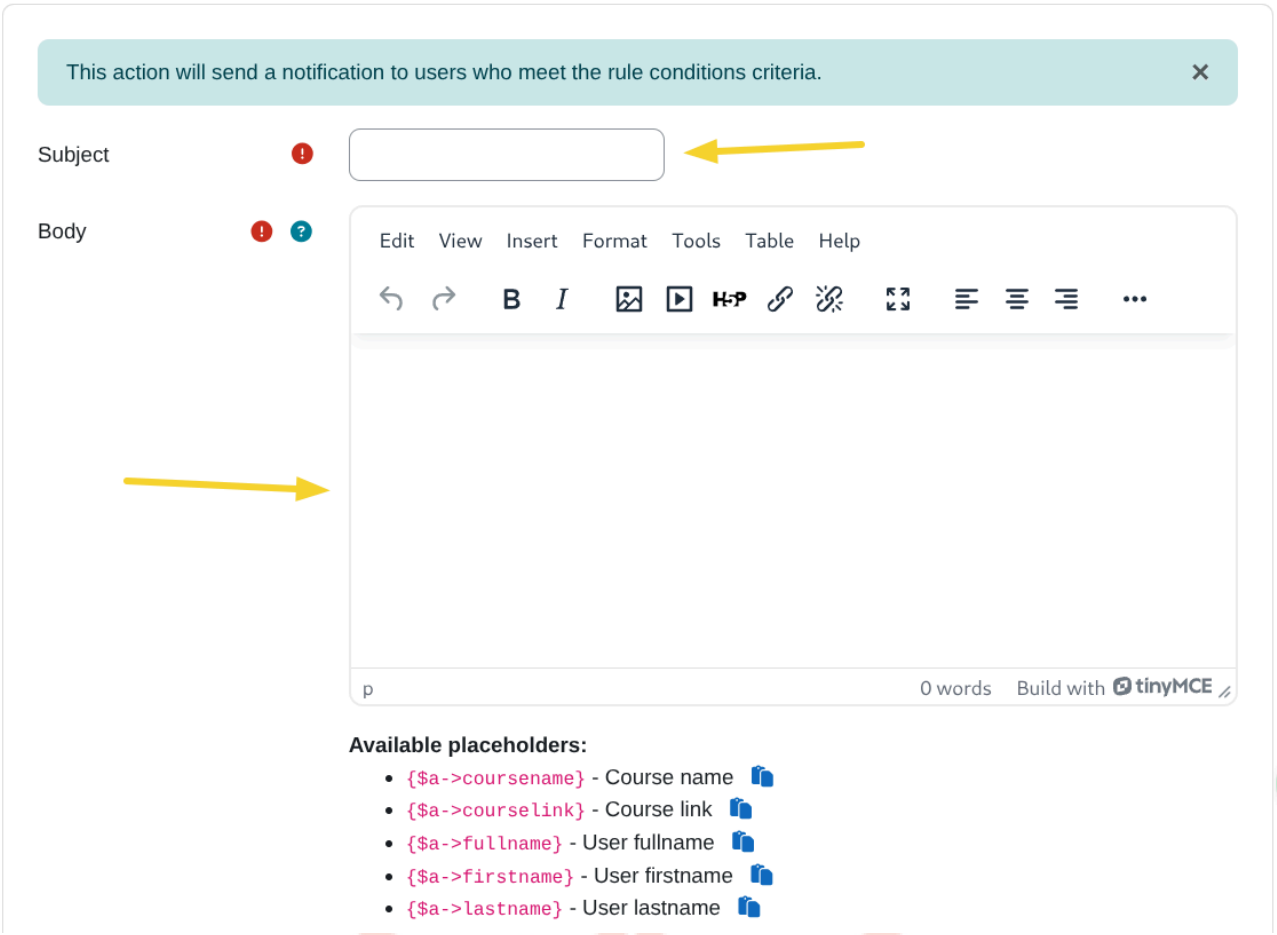
Action: `Send notification`

- Subject: `Great job! You passed`
- Body: `Hi {$a->firstname}, congratulations on passing the activity in {$a->coursename}! Keep going: {$a->courselink}`

Completion conditions



Roles to notify: `Student`



IF THE ACTIVITY DOES NOT APPEAR IN THE SELECTOR

Make sure the activity has completion/grade settings configured (see the Conditions reference).

Template 3 — Low grade follow-up (Grade in activity → Send notification)

Goal

Notify learners when their grade is below a threshold and encourage them to review content or try again.

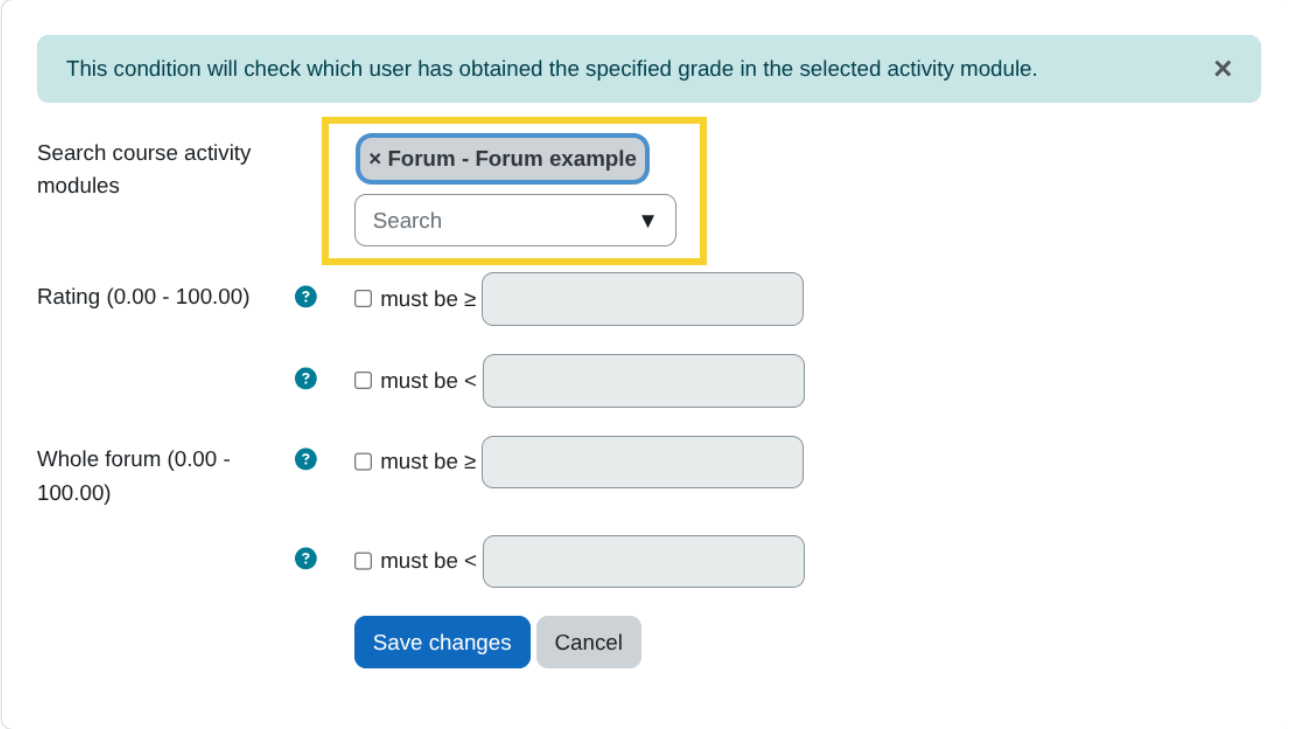
When to use it

- Early intervention for struggling learners
- Reduce drop-off by reacting quickly to low performance

Rule setup

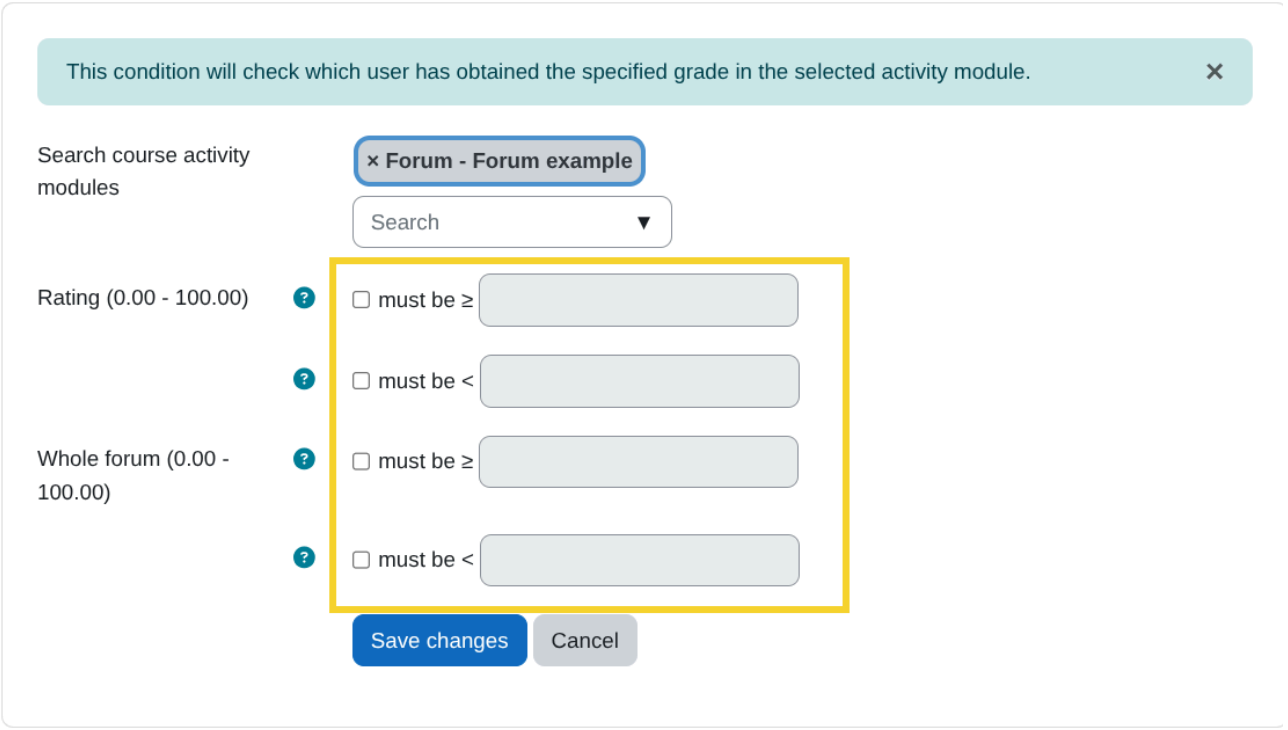
Condition: `Grade in activity`

- Select the activity
- Comparison: `Must be <`
- Threshold: e.g., `60` (adjust to your grading scale)



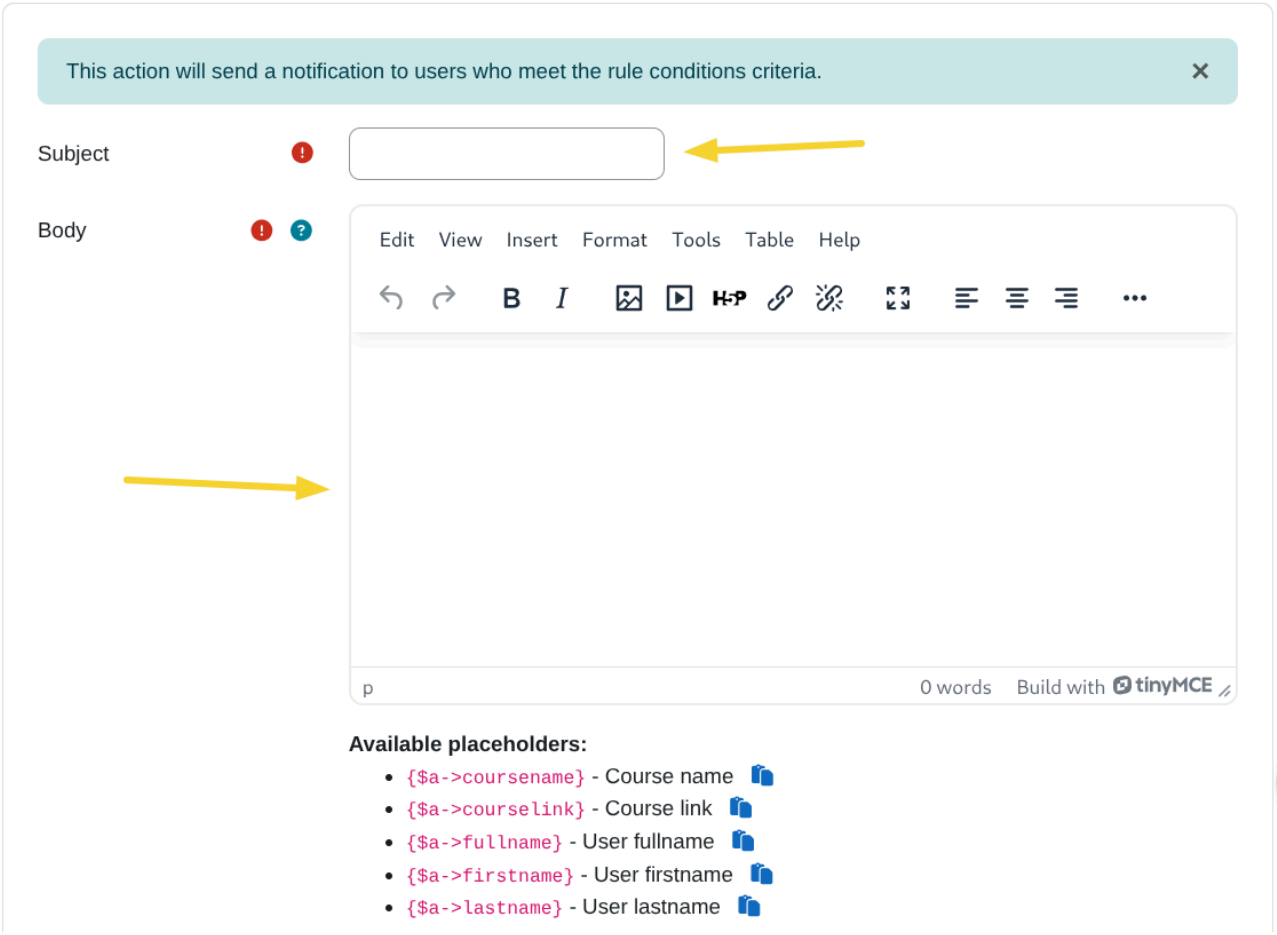
Action: `Send notification`

- Subject: `Quick tip to improve your score`
- Body: `Hi {$a->firstname}, we noticed your score is below the target in {$a->coursename}. Please review the materials and try again: {$a->courselink}`



Roles to notify: `Student`

(Optional: add `Teacher` if you want a teacher alert too.)



Template 4 — Activity not completed on time (Activity not completed → Send notification)

Goal

Remind learners who did not complete a required activity by the expected date.

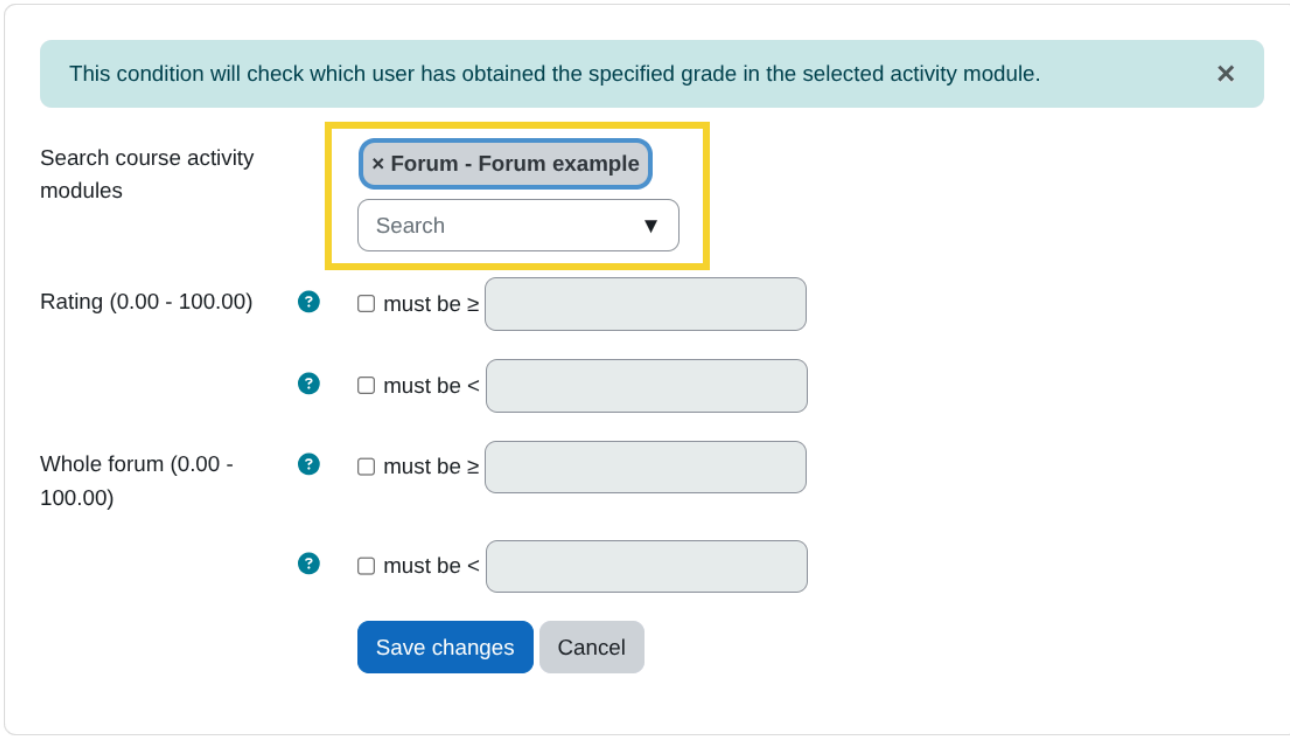
When to use it

- Deadlines matter (weekly tasks, required checkpoints)
- You want automatic reminders after due dates

Rule setup

Condition: `Activity not completed`

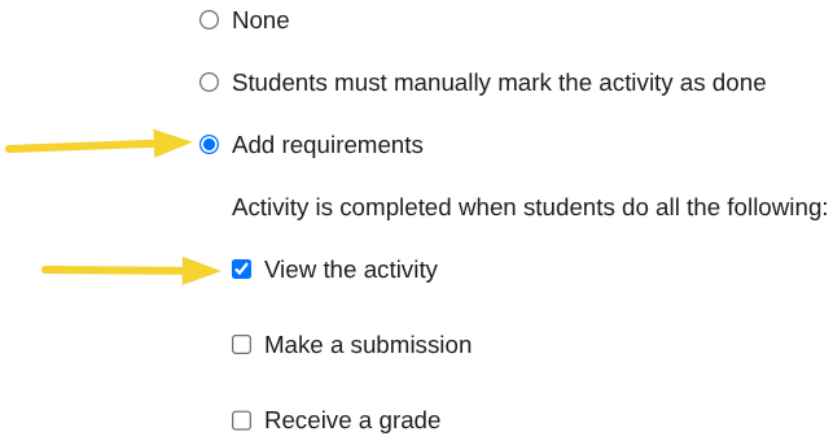
- Select the activity
- Set the expected completion date/time



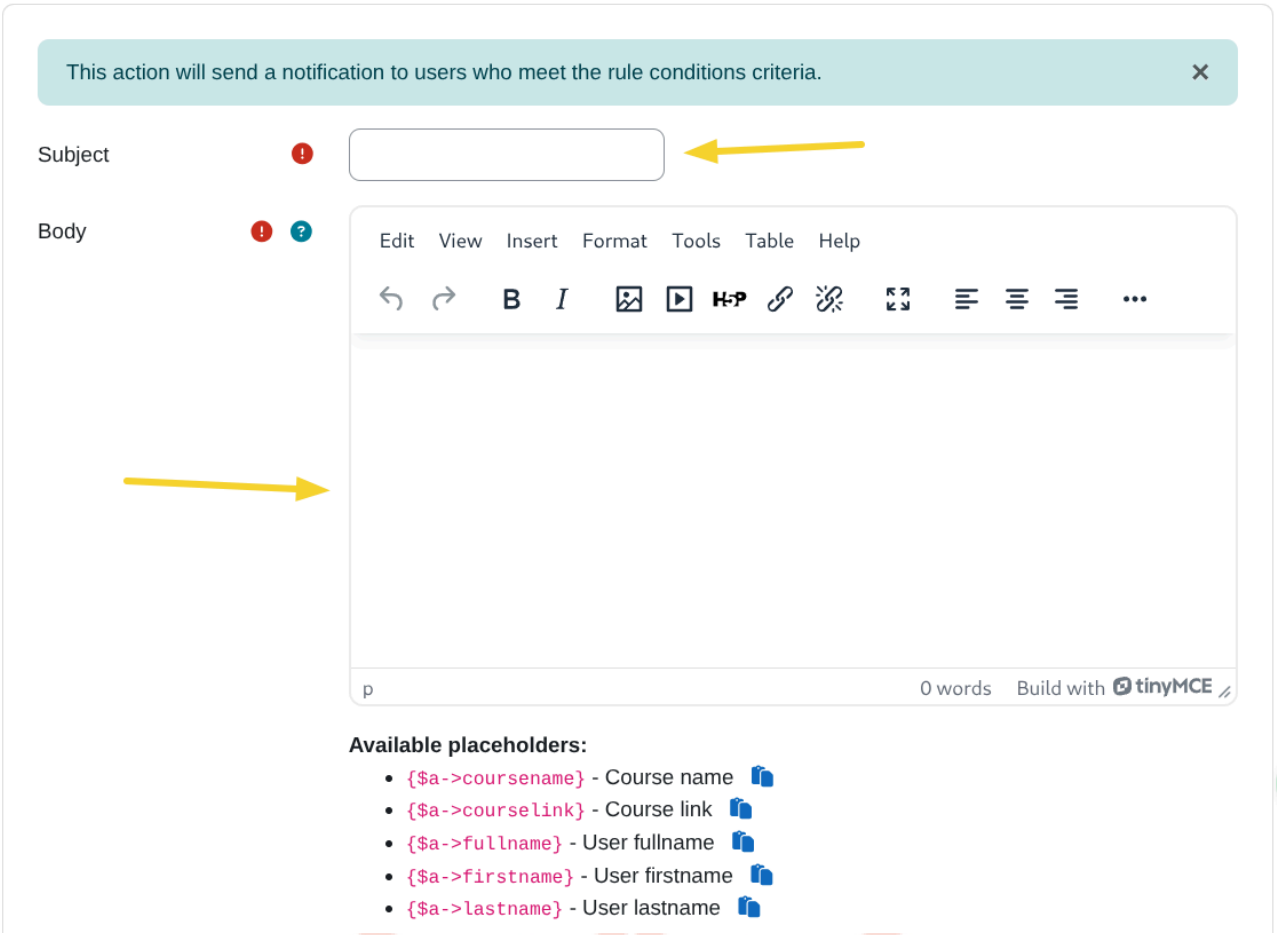
Action: `Send notification`

- Subject: `Reminder: please complete the activity`
- Body: `Hi {$a->firstname}, this is a reminder to complete the activity in {$a->coursename}. Access the course here: {$a->courselink}`

Completion conditions



Roles to notify: `Student`



Template 5 — Personalized practice (Course inactivity OR low grade → Create AI reinforcement activity)

> This template requires extra plugins. See Prerequisites.

Goal

Automatically create a reinforcement activity (generated with AI) for learners who need extra practice.

When to use it

- You want differentiated practice at scale
- You want to react to inactivity or low performance with targeted support

Rule setup (example)

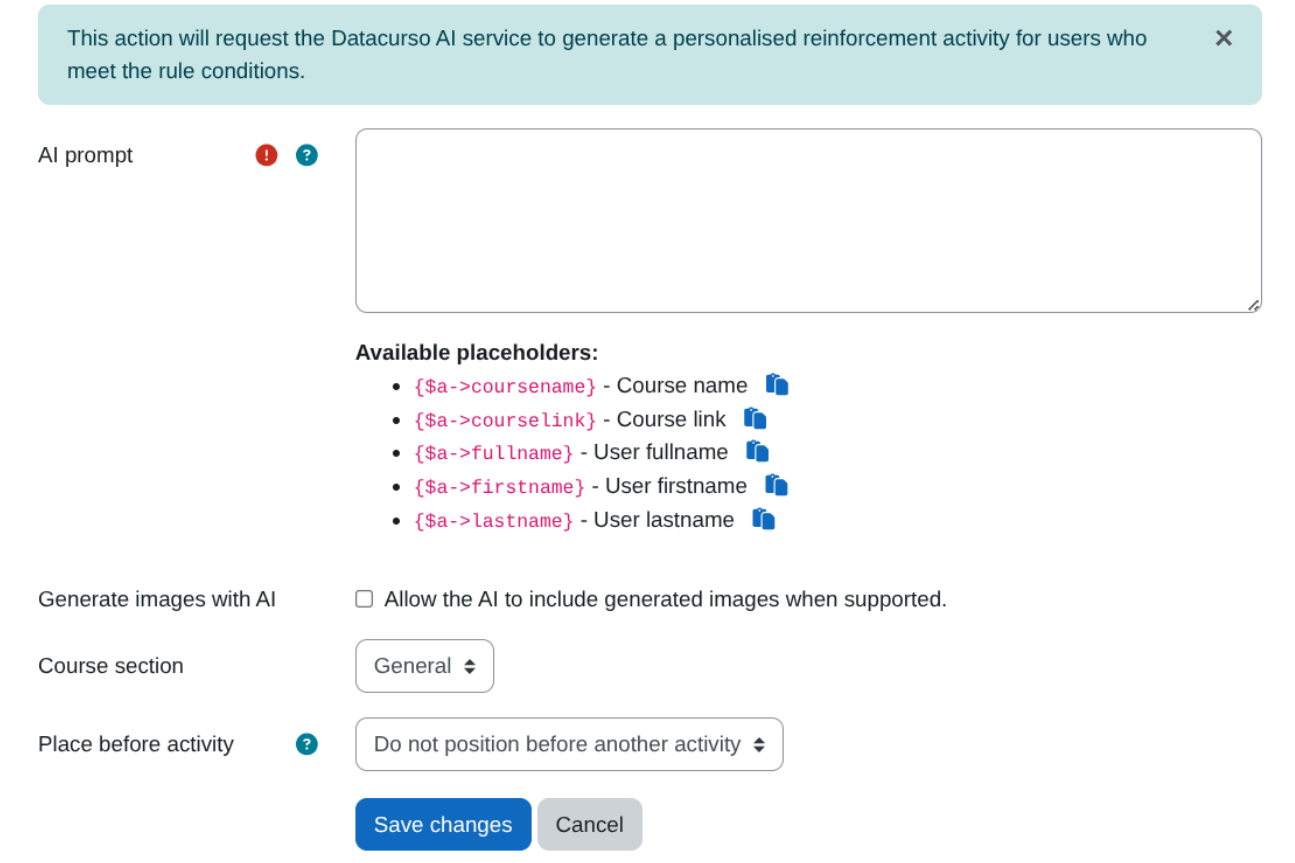
Condition (choose one):

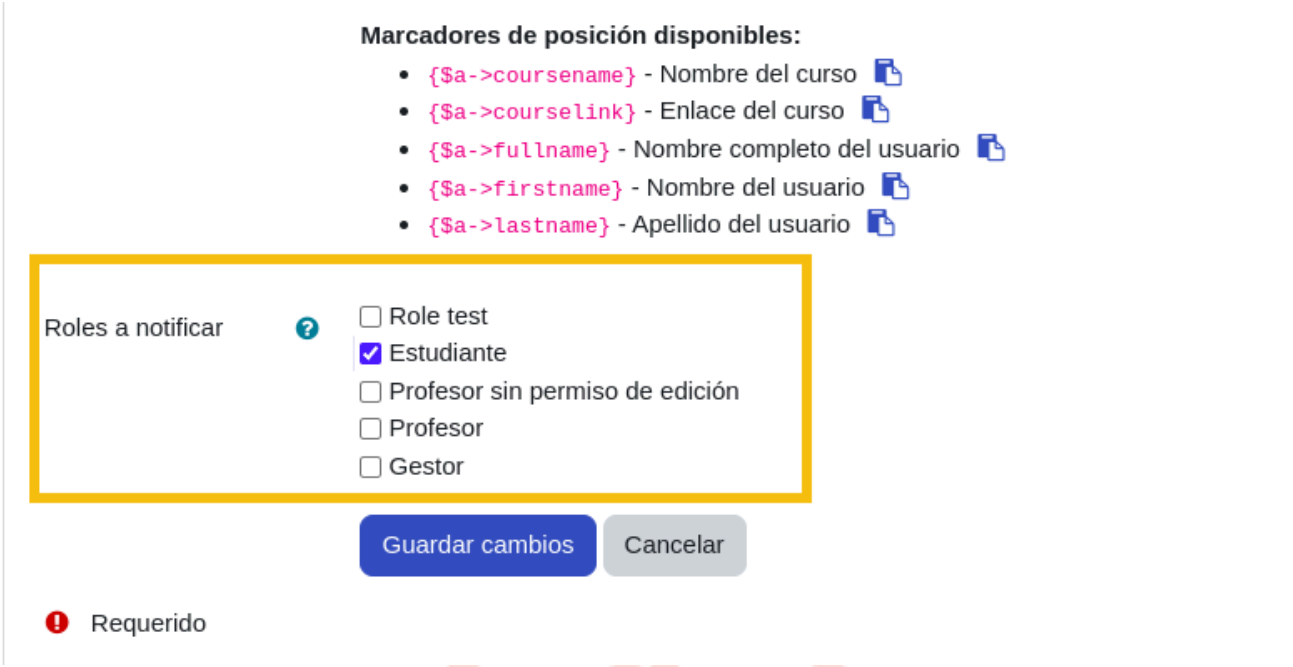
- `No course access` (e.g., 14 days), **or**
- `Grade in activity` (e.g., must be `< 60`)

Action: `Create AI reinforcement activity`

- Prompt example:

```
  `Create a short reinforcement activity for {$a->firstname} based
on the content of {$a->coursename}.
  Focus on the concepts they likely struggled with and include 5
practice questions.`
- Section: choose where the activity will appear
- (Optional) Insert before: select a relevant activity
```





IMPORTANT

This action requires:

- Restriction by user
- Course Creator AI (See Prerequisites.)

How to choose the right template

- Want more learners to return? → **Template 1**
- Want to reinforce progress? → **Template 2**
- Want early intervention? → **Template 3**
- Want deadline follow-up? → **Template 4**
- Want differentiated practice at scale? → **Template 5**

Smart Rules AI plugin permissions

The following table summarises the main permissions used by the **Smart Rules AI** plugin and their default role assignments.

Name	Description	Default roles
`local/coursedynamicrules:managerule`	Access the Smart Rules dashboard inside a course and see the rules that are defined there.	Manager, Editing teacher
`local/coursedynamicrules:updaterule`	Change the details of a rule (name, description, or active state).	Manager, Editing teacher
`local/coursedynamicrules:deleterule`	Remove a rule completely, including its conditions and actions.	Manager
`local/coursedynamicrules:manageaction`	Add or remove actions from a rule.	Manager, Editing teacher

Name	Description	Default roles
`local/coursedynamicrules:deleteaction`	Remove an action from a rule.	Manager
`local/coursedynamicrules:managecondition`	Add or remove conditions from a rule.	Manager, Editing teacher
`local/coursedynamicrules:deletecondition`	Remove a condition from a rule.	Manager

`local/coursedynamicrules:managerule`

Allows users to access the **Smart Rules AI dashboard** inside a course and view the rules defined there.

With this permission, a user can:

- Open Smart Rules AI from the course menu.
- See the list of rules created in the course.
- Access rule details (as allowed by other permissions).

`local/coursedynamicrules:updaterule`

Allows users to edit a rule’s main settings.

With this permission, a user can:

- Rename a rule.
- Update the rule description.
- Toggle the rule **Active/Inactive** state.

`local/coursedynamicrules:deleterule`

Allows users to permanently delete a rule.

With this permission, a user can:

- Delete a rule completely.
- Delete everything attached to that rule (its conditions and actions).

> Note: This is a destructive operation (data loss). For that reason, it is granted to **Manager** by default.

`local/coursedynamicrules:manageaction`

Allows users to manage the **actions** attached to a rule.

With this permission, a user can:

- Add new actions to a rule.
- Remove actions from a rule (when deletion is permitted).
- Adjust the configuration of existing actions (where applicable in the UI).

`local/coursedynamicrules:deleteaction`

Allows users to permanently remove an action from a rule.

With this permission, a user can:

- Delete an action configuration so it no longer runs when the rule triggers.

> Note: This is destructive and therefore granted to **Manager** by default.

`local/coursedynamicrules:managecondition`

Allows users to manage the **conditions** attached to a rule.

With this permission, a user can:

- Add new conditions to a rule.
- Remove conditions from a rule (when deletion is permitted).
- Adjust the configuration of existing conditions (where applicable in the UI).

`local/coursedynamicrules:deletecondition`

Allows users to permanently remove a condition from a rule.

With this permission, a user can:

- Delete a condition configuration so it no longer affects rule matching.

> Note: This is destructive and therefore granted to **Manager** by default.