Canvas Integration User Guide

April 2, 2025

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Canvas Integration Overview

Assessments that are completed in Canvas can be uploaded to Competency using Application Program Interface (API) integration. Integrating Canvas with Competency using API integration means connecting these two software tools so they can work together seamlessly. By using APIs, which are like digital bridges, data from Canvas—such as grades or assignment submissions—can be shared with Competency to help monitor and evaluate student progress. This integration allows for a smoother flow of information between the two systems, making it easier for educators to manage student performance and for students to see how their skills are developing in real-time.

The items you can integrate, or bring over, to Competency are assessment scores from quizzes, exams, and rubrics.

To enable integration, the steps outlined below need to be completed by the program's **Canvas Administrator or IT personnel.**

1. **Enable Canvas**

    a. Within Canvas, navigate to **Organization > Hierarchy > check the Canvas API Box.**

    b. Next, navigate to **Organization > Manage Assessments > Create Assessment Type > choose Quizzes and Assignments**

        i. Assign to Source Component = Canvas

   c. Next, navigate to **Curriculum > Assessment Type > Create Assessments needed and assign to Assessment Types**

2. **Add Credentials**

    a. The Canvas Administrator generates a token in Canvas and then provides to the Program Director who will update in the credentials in Competency to authenticate the API import.

    b. When creating Developer API Keys in Canvas, please use the following Redirect URIs:

        i. Redirect URI (Legacy): http://compentecyai2prodsvc.azurewebsites.net/api

        ii. Redirect URIs:
        http://compentecyai2prodsvc.azurewebsites.net/api/AssessmentType/GetAuthResponse

    c. If the credentials are for the entire organization, then update **Organization > LMS tab**
    If the credentials are specific to one program, update **Curriculum > Program**

    d. Next, work with the Program Director to access the Competency dashboard.

e. Program Director logs into Competency using their username and password. Upon logging in, click **Settings – Curriculum – Program**.
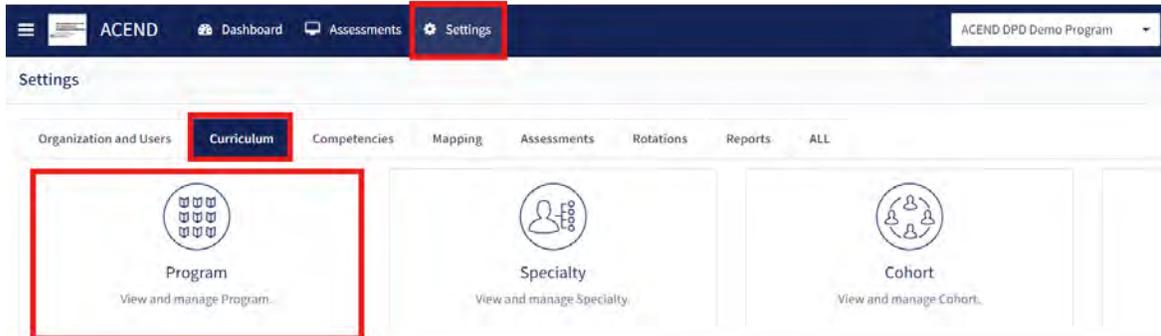
f. View your program details.
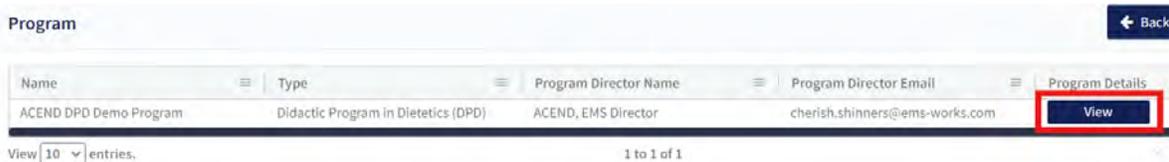
g. Click Add New LMS under LMS Configuration section.

h. Select Canvas from the dropdown menu.

i. Enter your program's Canvas URL and Credentials. **This step is a one-time configuration setup.** Work with your Canvas Administrator in your IT department to obtain the following information:
   i. In the API URL field, enter the program-specific Canvas API URL.
   ii. Enter the associated Client ID.
   iii. Enter the associated Client Secret.

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iv. Scope (not required). Scope allows your program to restrict what information Competency is allowed to access.

IMPORTANT: "Allow Include Parameters" is necessary for the import process.

Enforce Scopes

✓ Allow Include Parameters ⓘ

To permit usage of all "includes" parameters for this key, click the **Allow Include Parameters** checkbox.

Please enforce the following scopes in Canvas. For additional help with enforcing scores, please refer to Canvas resource: https://community.canvaslms.com/t5/Admin-Guide/How-do-I-enable-scoping-for-a-developer-API-key-in-an-account/ta-p/181
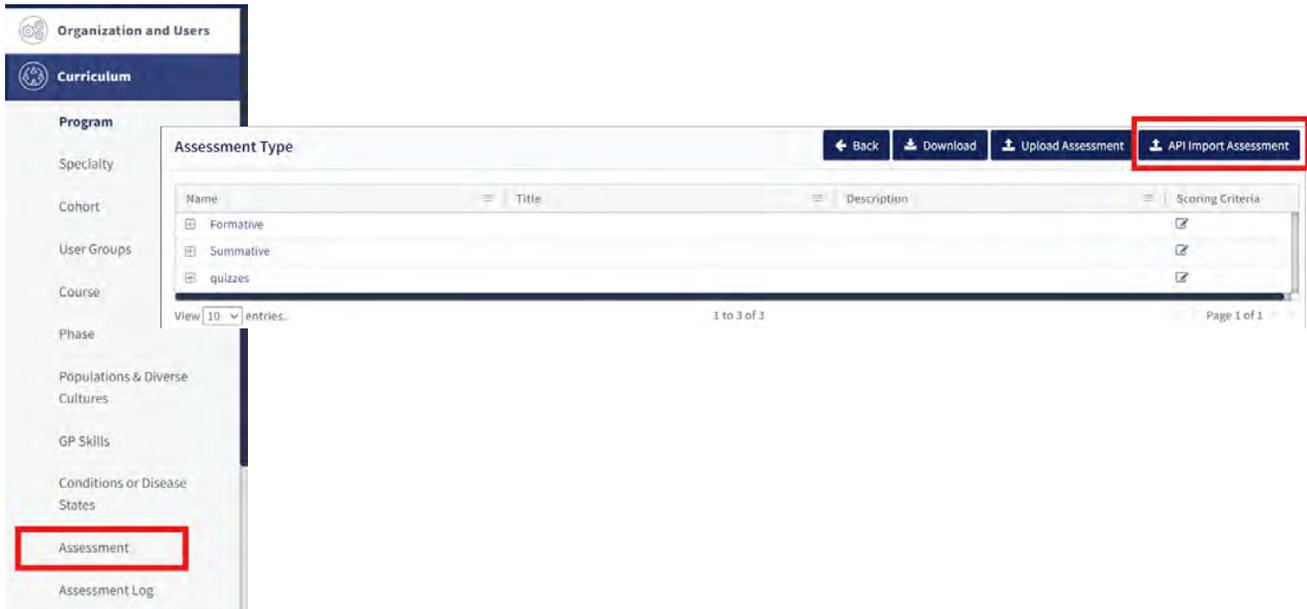
- url:GET|/api/v1/courses
- url:GET|/api/v1/files/:id
- url:GET|/api/v1/users/:id
- url:GET|/api/v1/users/:id/settings
- url:GET|/api/v1/accounts/:account_id/users
- url:GET|/api/v1/courses/:course_id/quizzes
- url:GET|/api/v1/courses/:course_id/quizzes/:quiz_id/reports
- url:POST|/api/v1/courses/:course_id/quizzes/:quiz_id/reports
- url:GET|/api/v1/courses/:course_id/quizzes/:quiz_id/reports/:id
  url:GET|/api/v1/courses/:course_id/assignments/:id
- url:GET|/api/v1/courses/:course_id/assignments/:assignment_id/submissions
- url:GET|/api/v1/courses/:course_id/rubrics
- url:GET|/api/v1/courses/:course_id/rubrics/:id
- url:GET|/api/v1/courses/:course_id/assignments
- url:GET|/api/v1/courses/:course_id/assignment_groups/:assignment_group_id/assignments
- url:GET|/api/v1/courses/:course_id/rubrics/:id/used_locations
- url:GET|/api/v1/sections/:section_id/assignments/:assignment_id/submissions

Add New LMS

Select LMS Source

Canvas

Edit Canvas Credentials

API URL*

https://canvasdev.simulationiq.com

Client Id*

10000000000009

Client Secret*

HeFiKv9CVJoSv8YEAfzjbuOd0EBrgLWF43cTEg2fnWMhtpVzmIAsO9Q7Qi644UUS

Scope *

HeFiKv9CVJoSv8YEAfzjbuOd0EBrgLWF43cTEg2fnWMhtpVzmIAsO9Q7Qi644UUS

Cancel   Save

3. **Allow Authorization to Use Canvas API**

   a. Click Assessments from the left-hand navigation panel under Curriculum.
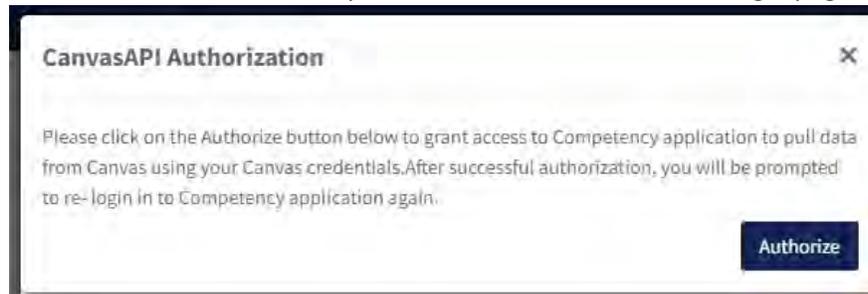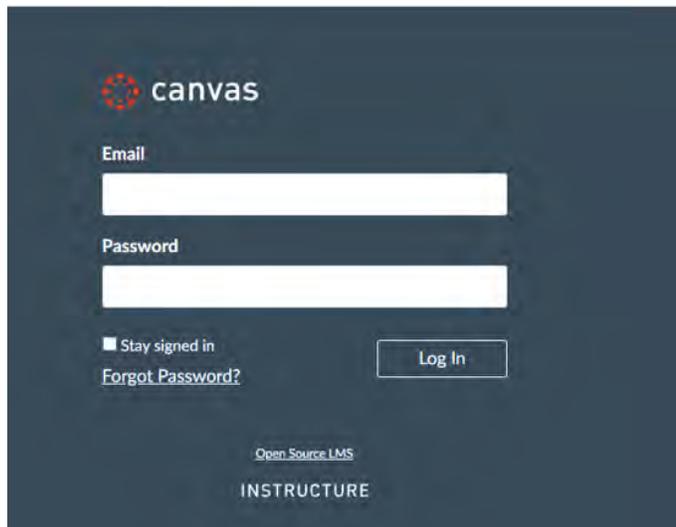   b. Select the API Import Assessment button.

c. In the API Import Assessment dialog box, select Canvas API from Source dropdown. A dialog box will appear prompting you to authenticate the source (see step d. below). The remainder of the required fields will be entered later.

API Import Assessment

Source*
Canvas API

Assessment Type *
Quizzes

Class
Select Class

Programs *
Select Programs

Specialties ☐ N/A
Select Specialties

Courses ☐ N/A
Select Courses

Cohorts *
Select Cohorts

Phases *
Select Phases

Blocks *
Select Blocks

Canvas Course
Select Courses

Canvas Assessments
Select Assessment

Cancel   Submit
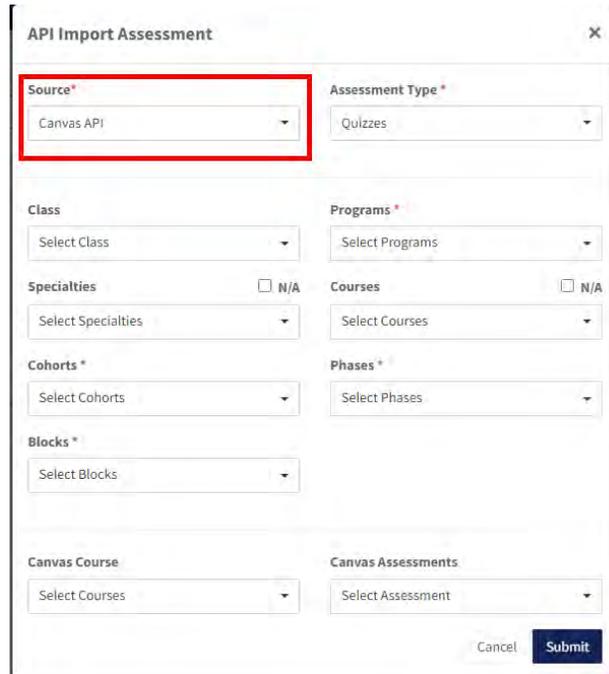
d. Click on "Authorize" button and you will be redirected to Canvas login page.

CanvasAPI Authorization

Please click on the Authorize button below to grant access to Competency application to pull data from Canvas using your Canvas credentials. After successful authorization, you will be prompted to re-login in to Competency application again.

Authorize

e. Enter your credentials in the Canvas log in page:

f. On the submission of correct credentials, the Canvas authorization page will be displayed. Select Authorize.

g. Once the user's credentials have been authenticated, the system will take the user back to the Competency login page to login into the system. Now that the user has successfully authorized to use "CanvasAPI", data can be imported from the Canvas site. This will complete the initial authorization. The next time an assessment is uploaded, the authorization will no longer be required unless the authorization token is expired.

4. **Import Assessments**

Please note that the following fields are pulled over from your Canvas assessment into Competency.

| Student ID (Required if not sending Email) | Student ID that matches the Learner's ID in their user profile in Competency. |
Full Name	Learner's Last Name and First Name separated by a comma.
Email Address (Required if not sending Student ID)	Learner's unique email address that matches the email for the user in Competency.
Assessment Name (Required)	Assessment name.
Question Number	Question Number
Question ID (Required)	Question ID
Question Text (Required)	Question Text
Answer Text	Answer Text
Submit Date (Required):	Date the exam was taken/administered

a. To import, click **Settings – Curriculum – Assessment Type**.

b. Select the API Import Assessment button.

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c. Complete the remaining required fields on the dialog box and click submit.
Note: these fields are dynamically displayed based on configurations for the program. The Program field will pre-populate with the Program Name.

Source	Canvas API
Assessment Type	Quizzes or Assignments Choose quiz to import quiz scores or choose assignment to import rubric scores. *Note: if importing quiz scores, all students must have completed the quiz before you can import.*
Class (optional)	Recommended to leave this blank.
Programs	Your program name.
Specialties (optional)	Your program name or any specialties you have created for your program.
Courses (optional)	The course associated with the assessments you are bringing over.
Cohorts	Cohort related to the assessment.
Phases	Phase related to assessment.
Blocks	Block related to assessment.
Canvas Course and Canvas Assessments	Complete list of all the courses you've created within Canvas. Select the course where your quiz or assessment is found.
Canvas Assessments	Quizzes or assessments created within the select course will populate. Select the one for which you want to scores imported.
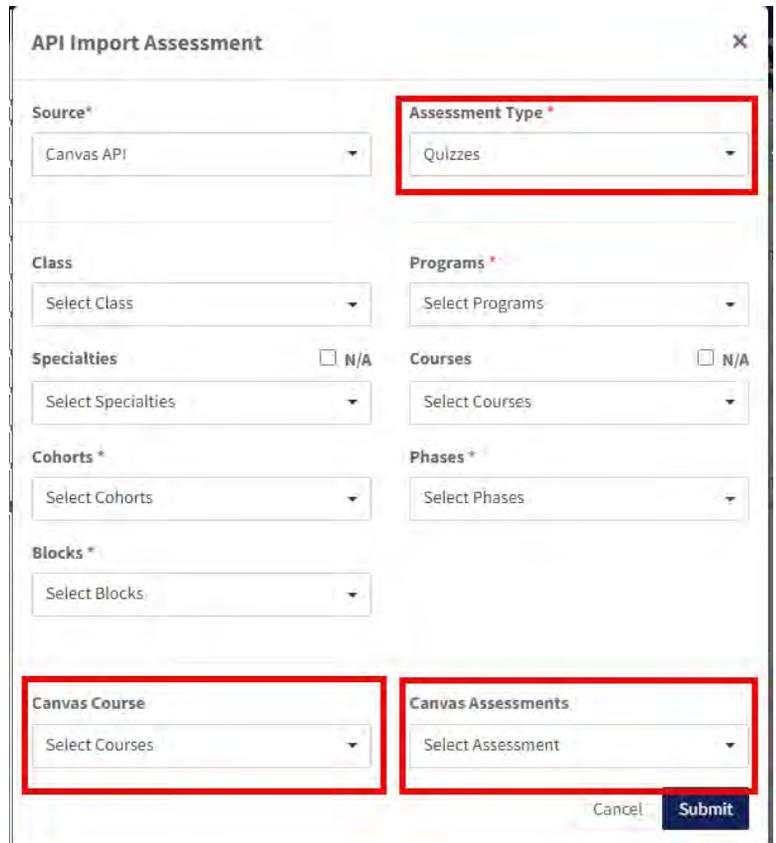
The preview processing will display what questions will be added, ignored, or updated as well as any errors that need to be corrected prior to upload.

- Question/Criteria Level Validation
  - If a Question/Criteria will be added, then no comment will be shown and the question's score will be added on Submit.
  - If a Question/Criteria's score has been updated, then the question will have a comment that the question needs to be updated and the question's score will be updated on Submit.
  - If a Question/Criteria and score combination already exists, then the question will have a comment that the response already exists and no updates will be made.
  - If a Question/Criteria has invalid or blank score, the question will have a comment that the question be ignored and not processed. 0 score will be treated as a valid score.
  - If all of the data already exists or is invalid, then the submit button will be disabled.
  - If the question/criteria score is higher than the Max Score that was entered on the upload screen, then the comment will display "this score exceeds the Max Score" and the score will be updated with the maximum possible score of 100%.
  - If the Assessment Question ID does not exist, then create the question text and assign to the new question ID. If the Question ID already exists, and the Question Text does not match existing, then update the question text.
  - Negative Question level scores and grade scores will be converted to a 0 score.
  - Question level and grade level scores over 100% will be converted to a 100% score.
- New User Validation
  - If the Student ID and/or Email Address is a match to an existing learner in Competency, then the assessment will be associated to that learner.
  - If the Student ID and Email do not match to an existing learner, a new user with a role of "Learner" with a status of "Active" will be created and assigned to the Program/Cohort/Phase/Block that was selected on the popup. The preview page will display that a new user is being created.
  - Faculty users will not be assigned or created during the import. Please note: Faculty users are assigned to a Course in Competency and Assessment Uploads are assigned to a Course during upload.

d. After importing, check the status of your import by clicking Assessment Log on the left-hand navigation menu.
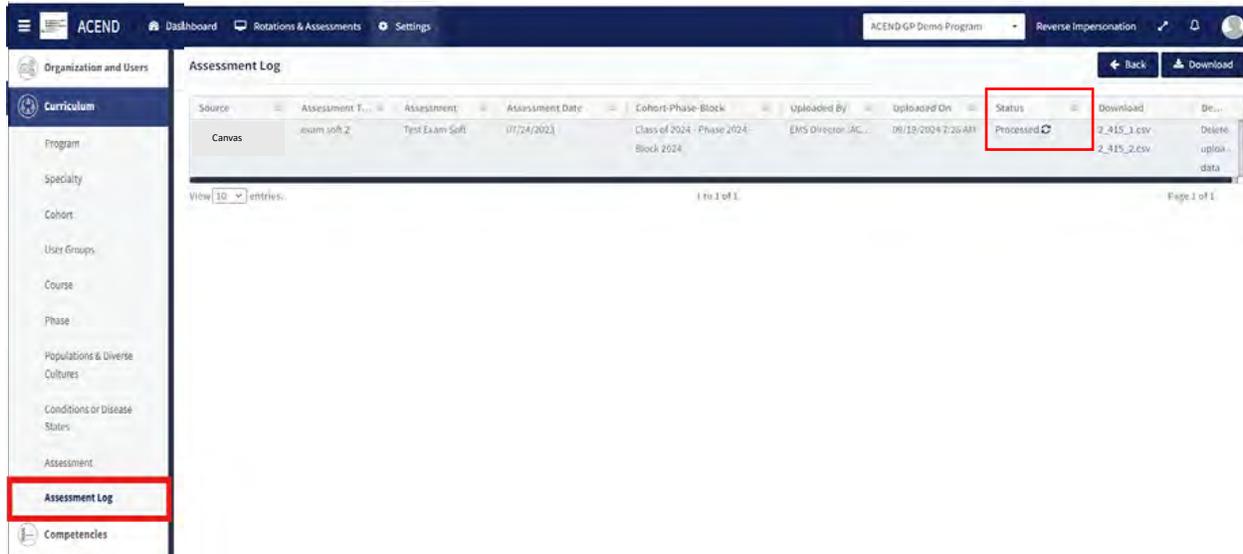

5. Mapping Assessments

After you have imported your assessments, you will need to map the assessment to an assessment type, a specialty, and a course/rotation. You will also need to map the individual criteria/question of your quiz or rubric within Competency to the competency, population and diverse culture, condition and disease state, or GP skill (if applicable).

a. Assessment Mapping

i. First, to map your **entire assessment** to an assessment type, specialty, and course/rotation, click Settings – Mapping – Assessment Mapping.
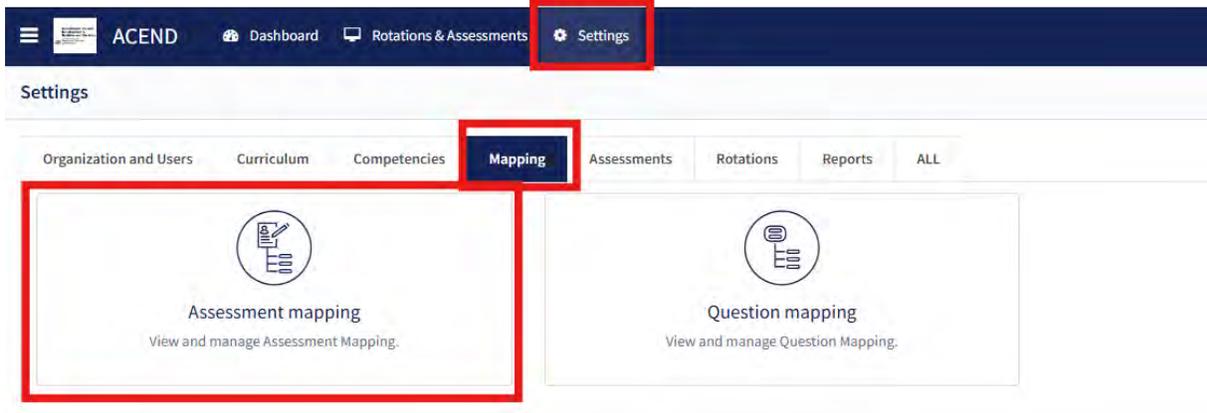
ii. Click the assessment name and enter the information on the pop-up. Entering a course/rotation and specialty helps organize the data within the software, but you may click N/A if you do not want to associate the assessment with a course/rotation or specialty.
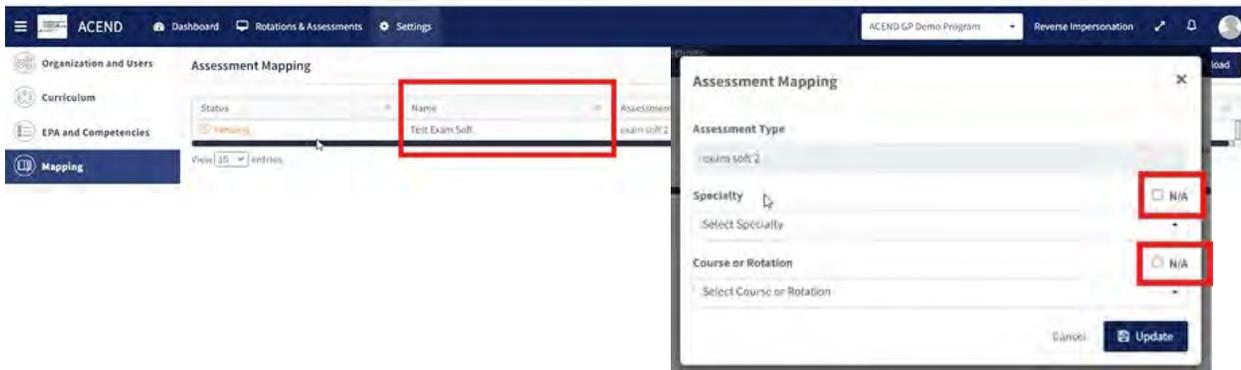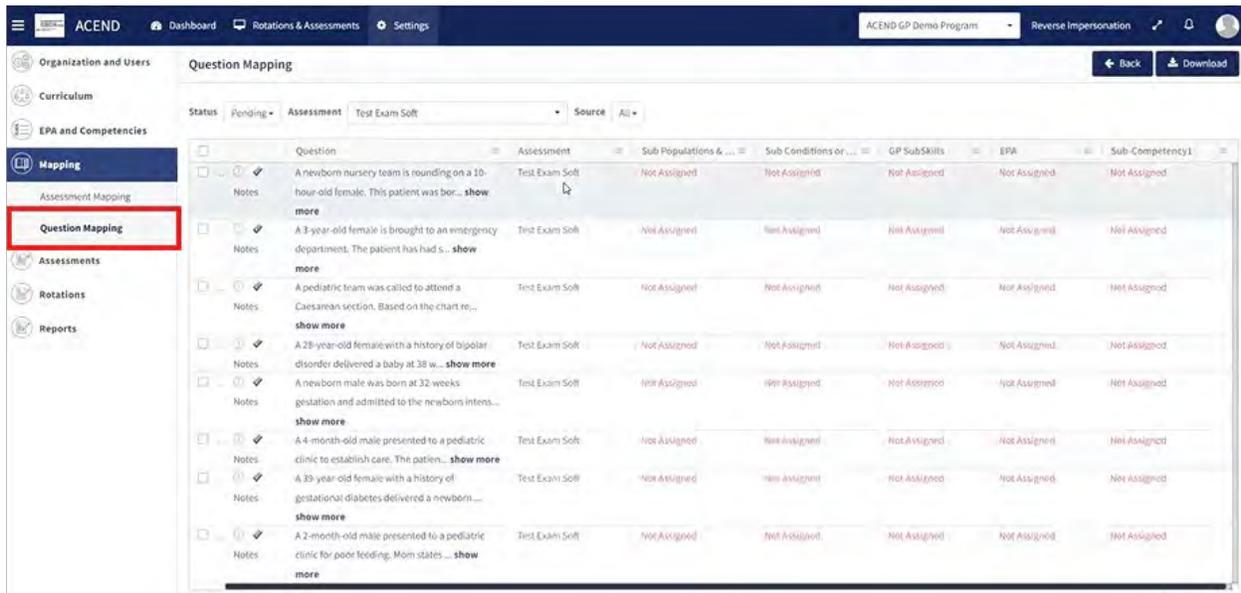

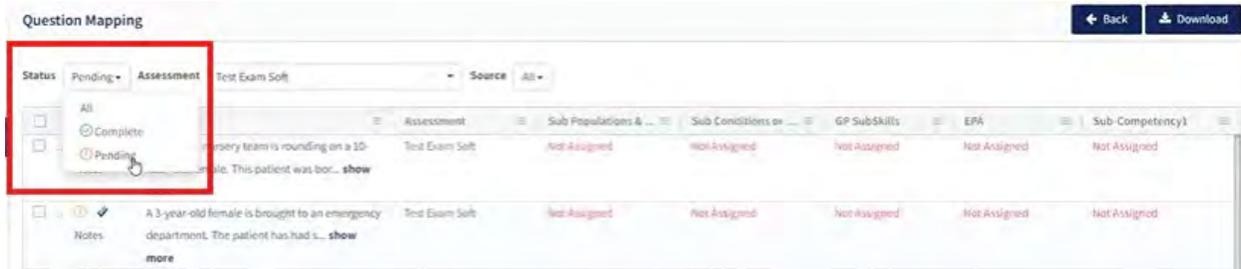iii. Click Update when finished and the status will change to Complete.

b. **Question Mapping**

i. To map your questions or rubric criteria to competencies, populations and diverse cultures, conditions and disease states, and GP skills (if applicable), on the left-hand navigation menu click Question Mapping.

ii. Questions or criteria that have not yet been mapped will have a status of Pending. Once mapped it will change to a Complete status. **Please note: The system processes changes overnight so you will not see your questions in the Compete status until the next day.**

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iii. Check the boxes of the questions or criteria you want to map to the same mapping criteria. You can choose multiple at a time or map one question/criterion at a time. Click the red Not Assigned text under the column you want to map and complete the mapping on the pop-up window. Click Map Selected when finished. Complete for all questions/criteria.
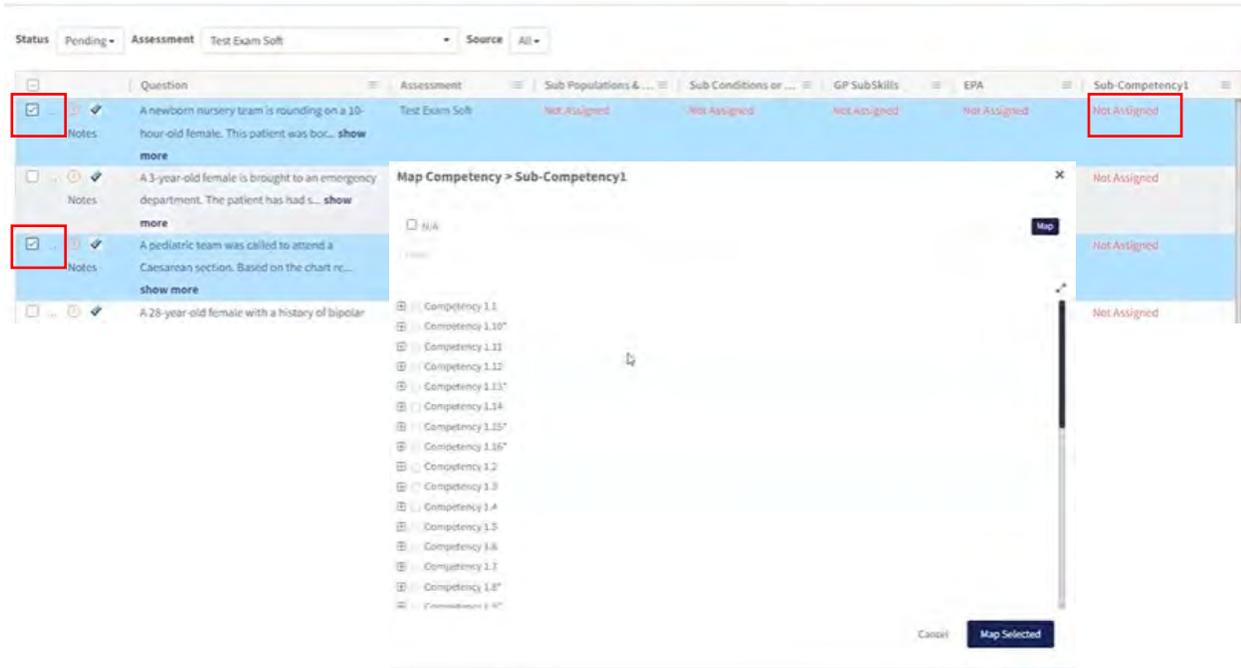
6. View Imported Data

Imported data will display on the Program Director and Student dashboard. On the Assessment Type tab, imported quizzes will display as **Quizzes** and imported rubrics will display as **Assignments**.

Clicking on the Assignments bar graph will allow you to filter through different course/rotations and all imported rubrics. The bar graph is displaying the cohort mean score, but you can view by student by clicking the student's name on the bottom half of the screen.