



EPIC

Entrepreneurial Potential and Innovation Competences

A course assessment tool

A Guide to using EPIC on HEInnovate



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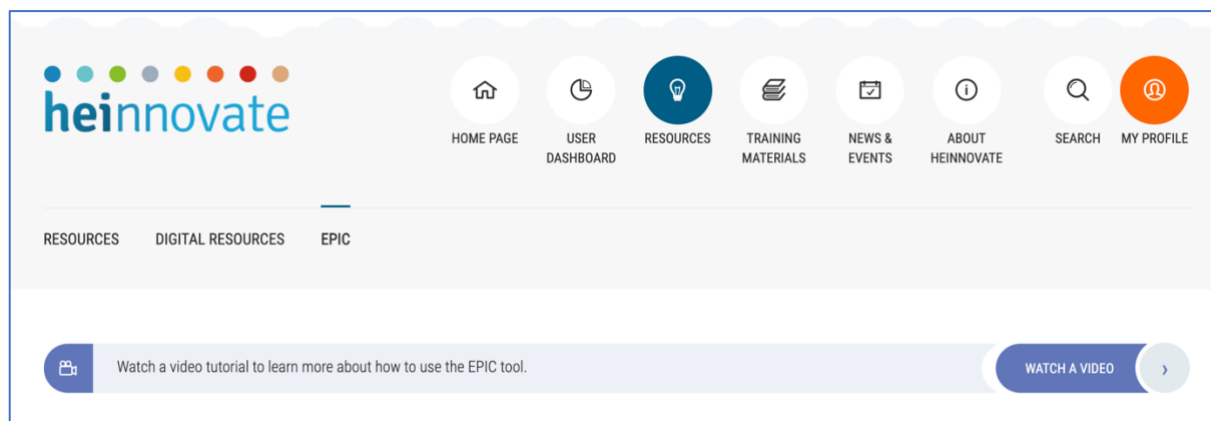
1. Introduction – What is EPIC?

The Entrepreneurial Potential and Innovation Competences (EPIC) course assessment tool was designed to help educators to measure the effectiveness of their entrepreneurship courses. It can be used to assess the skill and competence development of participants in different entrepreneurship courses, modules, summer schools, bootcamps or training programmes. The EPIC tool allows you to use predefined sets of questions or tailor the questionnaires to suit your entrepreneurship course the best.

2. How to create a course assessment with EPIC

To enter the EPIC tool, go to www.heinnovate.eu and click on 'Resources' in the top menu. At the bottom right of the page you see, click on the box that says 'EPIC'. Here you need to sign in with your HEInnovate account (if you already have one) or you need to register (for free). Upon login, you will have instant access to creating your EPIC course assessment.

Before starting the design of your assessment, you can also watch a video tutorial showing the main functions of the tool.



The EPIC course assessment works with a set of questions to assess course participants' skills and competence development across **five thematic areas**:

- (1) Entrepreneurial Competences (EntreComp)
- (2) Entrepreneurial Intentions and Attitudes
- (3) Entrepreneurial Mindset and Enterprising Behaviours
- (4) Entrepreneurial Strategies
- (5) Educational Effects

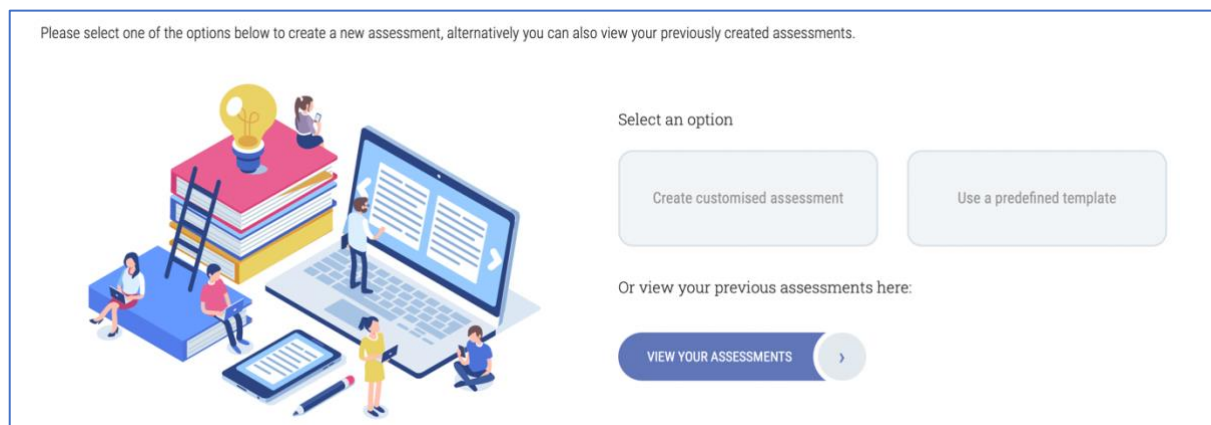
To ensure that the content of the course assessment fits the design of your entrepreneurship course the best, you can either choose to:

- **Create a customised course assessment**

- **Use one of the predefined assessment templates**

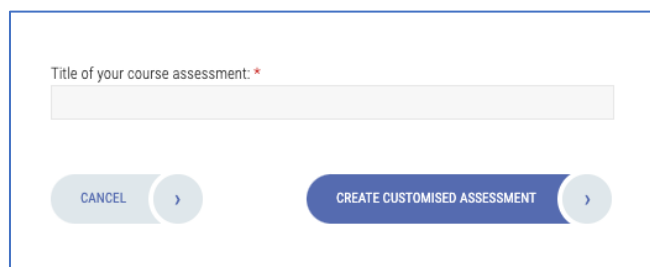
The three predefined assessment templates are:

1. **Entrepreneurial mindset assessment** - with a focus on creative, collaborative and leadership competences. This assessment is suitable for courses that do not focus on venture creation
2. **Readiness for business creation assessment** – with a focus on entrepreneurial intentions and entrepreneurial competences that are important in the early stages of a venture creation process
3. **Venture creation potential assessment** – with a holistic focus on venture creation, including enterprising behaviours and entrepreneurial competences important to all stages of a venture creation process



2.1 Create your customised course assessment

To start designing your customised course assessment, first give your assessment a title and click 'Create Customised Assessment'.



You will be taken through the five thematic areas from which you can choose the focus level of your customised assessment. The first assessment area is **Entrepreneurial Competences**. You can learn more about the assessment area by clicking on the 'Learn more' link.

Course assessment design

(1/3)

Use the cursor to choose your focus level for each thematic area by setting one, two or three stars. The more stars, the higher the focus, and the more statements in the resulting questionnaire. A higher focus level on specific areas increases both validity and duration to complete the overall assessment. In the menu below, see "Number of statements" and "Approximate time to complete" in minutes to adapt your assessment.

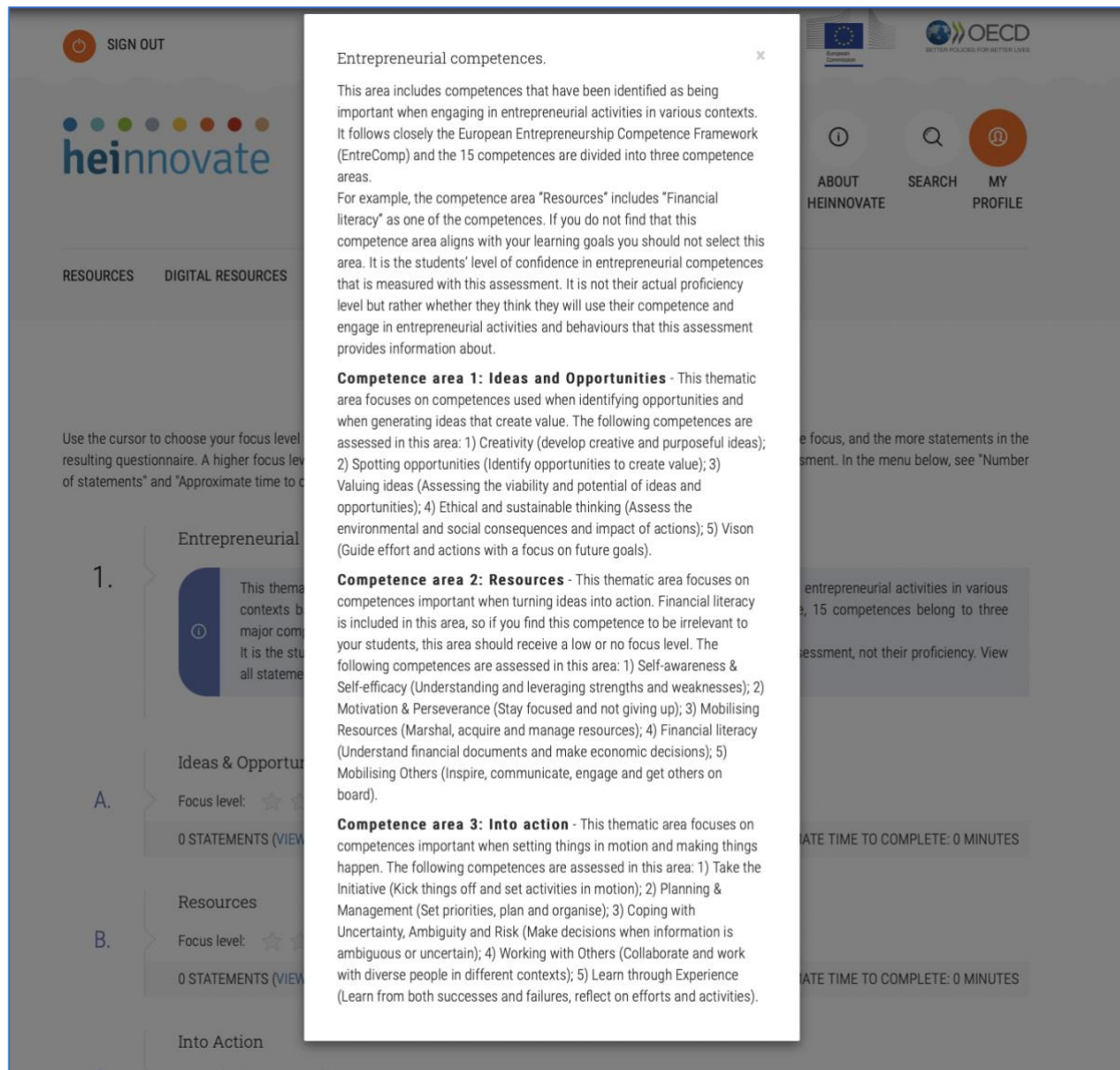
Entrepreneurial Competences (EntreComp)

1.



This thematic area includes competences that have been identified as central when engaging in entrepreneurial activities in various contexts based on the European Entrepreneurship Competence Framework (EntreComp). Here, 15 competences belong to three major competence areas. [Learn more.](#) It is the students' level of confidence in entrepreneurial competences that is measured by the assessment, not their proficiency. View all statements and set your focus in accordance to your learning goals.

A short description of the assessment area and its content will appear in a pop-up window.



The screenshot shows the heinnovate website interface. A pop-up window titled "Entrepreneurial competences" is displayed in the center. The background shows the website's navigation menu with "SIGN OUT", "RESOURCES", and "DIGITAL RESOURCES". The pop-up window contains the following text:

Entrepreneurial competences.

This area includes competences that have been identified as being important when engaging in entrepreneurial activities in various contexts. It follows closely the European Entrepreneurship Competence Framework (EntreComp) and the 15 competences are divided into three competence areas.

For example, the competence area "Resources" includes "Financial literacy" as one of the competences. If you do not find that this competence area aligns with your learning goals you should not select this area. It is the students' level of confidence in entrepreneurial competences that is measured with this assessment. It is not their actual proficiency level but rather whether they think they will use their competence and engage in entrepreneurial activities and behaviours that this assessment provides information about.

Competence area 1: Ideas and Opportunities - This thematic area focuses on competences used when identifying opportunities and when generating ideas that create value. The following competences are assessed in this area: 1) Creativity (develop creative and purposeful ideas); 2) Spotting opportunities (Identify opportunities to create value); 3) Valuing ideas (Assessing the viability and potential of ideas and opportunities); 4) Ethical and sustainable thinking (Assess the environmental and social consequences and impact of actions); 5) Vision (Guide effort and actions with a focus on future goals).

Competence area 2: Resources - This thematic area focuses on competences important when turning ideas into action. Financial literacy is included in this area, so if you find this competence to be irrelevant to your students, this area should receive a low or no focus level. The following competences are assessed in this area: 1) Self-awareness & Self-efficacy (Understanding and leveraging strengths and weaknesses); 2) Motivation & Perseverance (Stay focused and not giving up); 3) Mobilising Resources (Marshal, acquire and manage resources); 4) Financial literacy (Understand financial documents and make economic decisions); 5) Mobilising Others (Inspire, communicate, engage and get others on board).

Competence area 3: Into action - This thematic area focuses on competences important when setting things in motion and making things happen. The following competences are assessed in this area: 1) Take the Initiative (Kick things off and set activities in motion); 2) Planning & Management (Set priorities, plan and organise); 3) Coping with Uncertainty, Ambiguity and Risk (Make decisions when information is ambiguous or uncertain); 4) Working with Others (Collaborate and work with diverse people in different contexts); 5) Learn through Experience (Learn from both successes and failures, reflect on efforts and activities).

The background of the website shows a sidebar with "1. Entrepreneurial", "A. Ideas & Opportunities", "B. Resources", and "C. Into Action". The main content area shows a focus level selection (stars) and a "0 STATEMENTS (VIEW)" button for each section. The top right of the website shows logos for the European Union and OECD, and navigation links for "ABOUT HEINNOVATE", "SEARCH", and "MY PROFILE".

You can choose the level of focus by clicking on one, two or three stars next to the title of the areas. You can also decide to exclude an area by selecting no stars. In this case, there will be no questions included on that area in the course assessment. The more stars you select, the higher the number of questions will be in your assessment. You can see how long it will take the student to complete the assessment as well as the number of statements that will be included in the questionnaire.

Course assessment design

(1/3)

Use the cursor to choose your focus level for each thematic area by setting one, two or three stars. The more stars, the higher the focus, and the more statements in the resulting questionnaire. A higher focus level on specific areas increases both validity and duration to complete the overall assessment. In the menu below, see "Number of statements" and "Approximate time to complete" in minutes to adapt your assessment.

1. Entrepreneurial Competences (EntreComp)

This thematic area includes competences that have been identified as central when engaging in entrepreneurial activities in various contexts based on the European Entrepreneurship Competence Framework (EntreComp). Here, 15 competences belong to three major competence areas. [Learn more.](#)

It is the students' level of confidence in entrepreneurial competences that is measured by the assessment, not their proficiency. View all statements and set your focus in accordance to your learning goals.

A. Ideas & Opportunities

Focus level: ★☆☆

5 STATEMENTS (VIEW ALL STATEMENTS)
APPROXIMATE TIME TO COMPLETE: 2 MINUTES

B. Resources

Focus level: ☆☆☆

0 STATEMENTS (VIEW ALL STATEMENTS)
APPROXIMATE TIME TO COMPLETE: 0 MINUTES

C. Into Action

Focus level: ★★☆☆

10 STATEMENTS (VIEW ALL STATEMENTS)
APPROXIMATE TIME TO COMPLETE: 4 MINUTES

? NUMBER OF STATEMENTS **31**

✓ APPROXIMATE TIME FOR STUDENTS TO COMPLETE THE ASSESSMENT **13 min**

You can also click on 'View All Statements' to see the items that this assessment area includes.

Moving on to the next page, the course assessment design focuses on Entrepreneurial Intentions and Attitudes and Entrepreneurial Mindset and Enterprising Behaviours.

Course assessment design

(2/3)

2. Entrepreneurial Intentions and Attitudes

Focus level: ★☆☆

1 This thematic area focuses on venture creation. It assesses your students' intention to pursue a career as self-employed, their attitudes towards entrepreneurship, their entrepreneurial identity aspirations and their outcome expectations. These dimensions are all predictors of whether your students will engage in entrepreneurial activities in the future.

4 STATEMENTS (VIEW ALL STATEMENTS) APPROXIMATE TIME TO COMPLETE: 2 MINUTES

3. Entrepreneurial Mindset & Enterprising Behaviours

Focus level: ★★☆☆

1 This thematic area focuses on entrepreneurial judgment and independence. It assesses your students' intention to work with innovation and pursuing a career as an intrapreneur. It also includes assessment of their future orientation, confidence in their judgment and experience with making decisions under uncertainty. It is recommended that this area is combined with the thematic area Entrepreneurial Competences which includes many dimensions that overlap with this thematic area.

12 STATEMENTS (VIEW ALL STATEMENTS) APPROXIMATE TIME TO COMPLETE: 5 MINUTES

? NUMBER OF STATEMENTS **16**

✓ APPROXIMATE TIME FOR STUDENTS TO COMPLETE THE ASSESSMENT **7 min**

The last step in the course assessment design addresses **Entrepreneurial Scenarios** and **Educational Effects**. For the former, the students are asked to rank several strategies that can be applied to the scenarios proposed to them. Here, instead of choosing a focus level by clicking on stars, you are asked to select whether you want to include entrepreneurial scenarios in your course assessment or not. If so, on what should they focus?

Course assessment design

(3/3)

4. Entrepreneurial Scenarios

1 This thematic area assesses the students' preferred problem solving strategy in entrepreneurial situations. Scenarios immerse students in a specific situation to rank options to solve problems. The strategic options reflect four standard concepts of entrepreneurship theories: effectuation, business planning, technology innovation or design thinking. A non-entrepreneurial option is also included.

You can skip the thematic areas 4 and 5 if you do not wish to include curricular concepts in your entrepreneurship course assessment.

In which way would you like to include entrepreneurial scenarios in your course assessment?

0 STATEMENTS (VIEW ALL STATEMENTS)

☒ I do not want to include entrepreneurial scenarios

☐ Only scenarios with a focus on innovation

☐ Scenarios about innovation and venture creation

5. Educational Effects

Focus level: ★☆☆

1 This thematic area focuses on assessing how engaged your students are in their educational process and how motivated they have become by the educational programme. In addition to this the area focuses on which educational focus your students perceive your programme has had, how practice-oriented and experiential it has been, the level of focus on enterprising skills and business-oriented skills it has had.

5 STATEMENTS (VIEW ALL STATEMENTS) APPROXIMATE TIME TO COMPLETE: 2 MINUTES

When answering the course assessment questionnaire for this area, students are asked to assess different scenarios and express their preferred strategy by dragging and dropping different statements in their preferred order as shown on the image below.

Entrepreneurial Scenarios

1 Read carefully to understand the problem in the described situation. Then move the different strategic options with your cursor to form a preference list of action. Move the most important action to the top and the least important at the end of each block.

A 27 year old project manager wanted to find out whether or not a fairly uncertain technology-based project was worth pursuing. She had been working at a company for quite some time, and she had good insight into the market potential of this project. What do you think she should do?

1

2

3

4

5

DRAG AND DROP

A She should involve a colleague in discussion who has affiliates in the relevant business field and try to run different prototypes

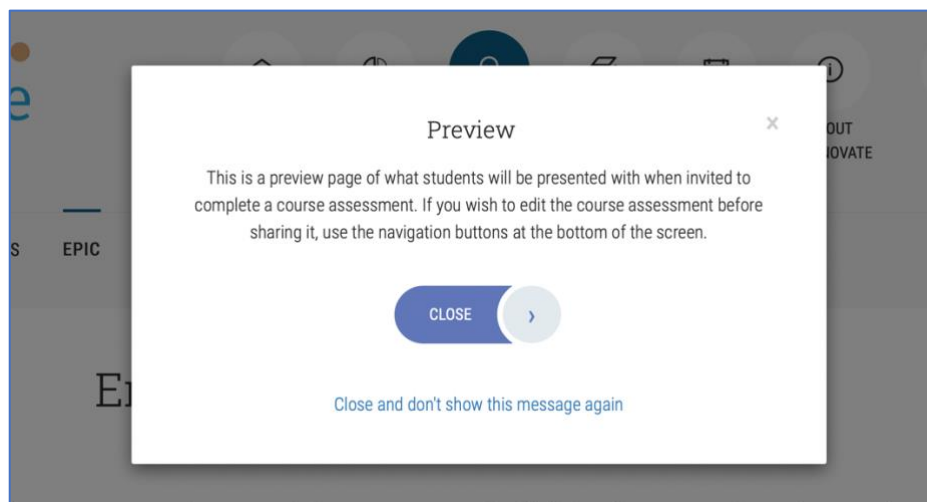
B She should observe the market and the upcoming activities of her department and discuss the observation with her line manager

C She should develop a convincing management plan (based on facts) then involve her department and team leaders

D She should identify then explore the views of the potential end-users of the project

E She should investigate the technological feasibility of her idea in the company's lab and propose the project idea underpinned by the first results

The last area focuses on educational effects. When you have finished customising your course assessment, you can click on 'Preview' to see the assessment you designed.



The preview will display the full questionnaire your students will receive for completion.

Entrepreneurial Competences

Which level do you perceive you were at the start of the semester, and which level you perceive to be now, in your ability to...

	Before this class	After this class
Identify opportunities for innovative value creation within your field of expertise	<input type="range"/> 1: Low - 10: High	<input type="range"/> 1: Low - 10: High
Come up with innovative ideas	<input type="range"/> 1: Low - 10: High	<input type="range"/> 1: Low - 10: High
Assess the social and ecological impact of your ideas	<input type="range"/> 1: Low - 10: High	<input type="range"/> 1: Low - 10: High
Identify the novel value in new ideas within your field of expertise	<input type="range"/> 1: Low - 10: High	<input type="range"/> 1: Low - 10: High
Assess various ways in which your ideas can develop successfully	<input type="range"/> 1: Low - 10: High	<input type="range"/> 1: Low - 10: High

If you wish to change the content of the assessment, you can still go back and edit the assessment. When you are finished, click on 'Create course assessment' and your customised assessment is ready to be shared with your course participants.

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PREVIOUS STEP

EDIT COURSE ASSESSMENT

NEXT STEP

CREATE COURSE ASSESSMENT

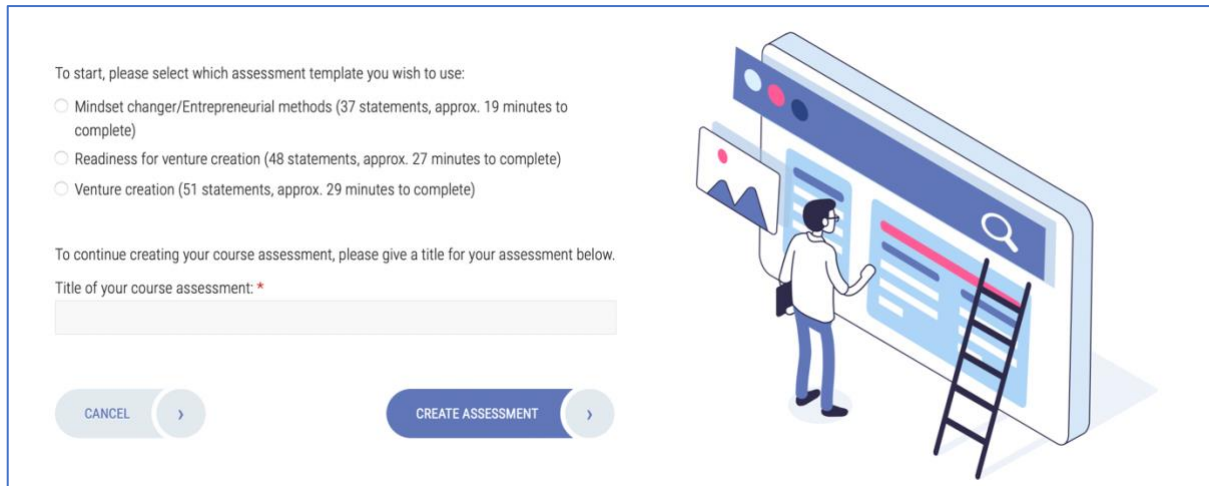
2.2 Create a course assessment using a predefined template

You can also decide to use one of the three predefined course assessment templates. The three templates vary in the level of focus put on the five different thematic areas and in the length of completion i.e. the number of questions displayed.

The three predefined assessment templates are:

1. **Entrepreneurial mindset assessment** - with a focus on creative, collaborative and leadership competences. This assessment is suitable for courses that do not focus on venture creation
2. **Readiness for business creation assessment** – with a focus on entrepreneurial intentions and entrepreneurial competences that are important in the early stages of a venture creation process
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To start, select which assessment template you wish to use.



To start, please select which assessment template you wish to use:

- ☐ Mindset changer/Entrepreneurial methods (37 statements, approx. 19 minutes to complete)
- ☐ Readiness for venture creation (48 statements, approx. 27 minutes to complete)
- ☐ Venture creation (51 statements, approx. 29 minutes to complete)

To continue creating your course assessment, please give a title for your assessment below.

Title of your course assessment: *

After selecting one of the three templates, you will see a preview. You can still edit the content of the assessment during this preview, otherwise the predefined assessment is ready to be shared with your course participants.

2.3 How to share the questionnaire

Once you have created a course assessment, the questionnaire you designed is ready to be shared with your students. You can copy the unique link generated by the system and send it to your course participants. To complete the assessment, your course participants do not need to register with HEInnovate. Their completed assessment will be anonymous, and you will receive the aggregated results of the completions as well as be able to see the number of completions.

Your assessment is ready to share!

Course assessment name: **test**

? NUMBER OF STATEMENTS **30**
✓ TIME TO COMPLETE **12 min**
i CURRENT STATUS **Open**

Copy link below to invite students to the course assessment.

1 <https://heinnovate.eu/epic/start-course-assessment/c9937662661e6ca58625>

When students click on the link you send them, they will be taken directly to the course assessment you created. Students do not have to register or login to the website to complete the course assessment, unless they wish to do so. Their course assessment will be fully anonymous, but you can see the total number of completions and the aggregated results in the [My course assessments](#) menu.

MY COURSE ASSESSMENTS >

In 'My course assessments' you can see all of your course assessments. The menu gives you an overview of your already created course assessments and you can see the titles of the assessments and the number of assessments that the students have submitted. You can view the results of the completions and have them visualised for you.

My course assessment list

- ENT 3

Created on: 09/01/2020 Closed on: 09/01/2020 14:03 Number of submissions: 0

Status: Closed

Re-open this assessment Create a copy of the assessment Share Delete

VIEW RESULTS >
- ENT 101

Created on: 09/12/2019 Number of submissions: 3

Status: Open

Close this assessment Create a copy of the assessment Share Delete

VIEW RESULTS >

You can also close an assessment by clicking on 'Close this assessment', so participants can no longer fill in the questionnaire, or re-open them to allow for further completions. You can create a copy of an existing course assessment. This option allows you to reuse a course assessment you have created, either with another group of course participants or with the same group at a later time.

ENT 101

Created on: 09/12/2019 Closed on: 09/01/2020 14:05 Number of submissions: 3

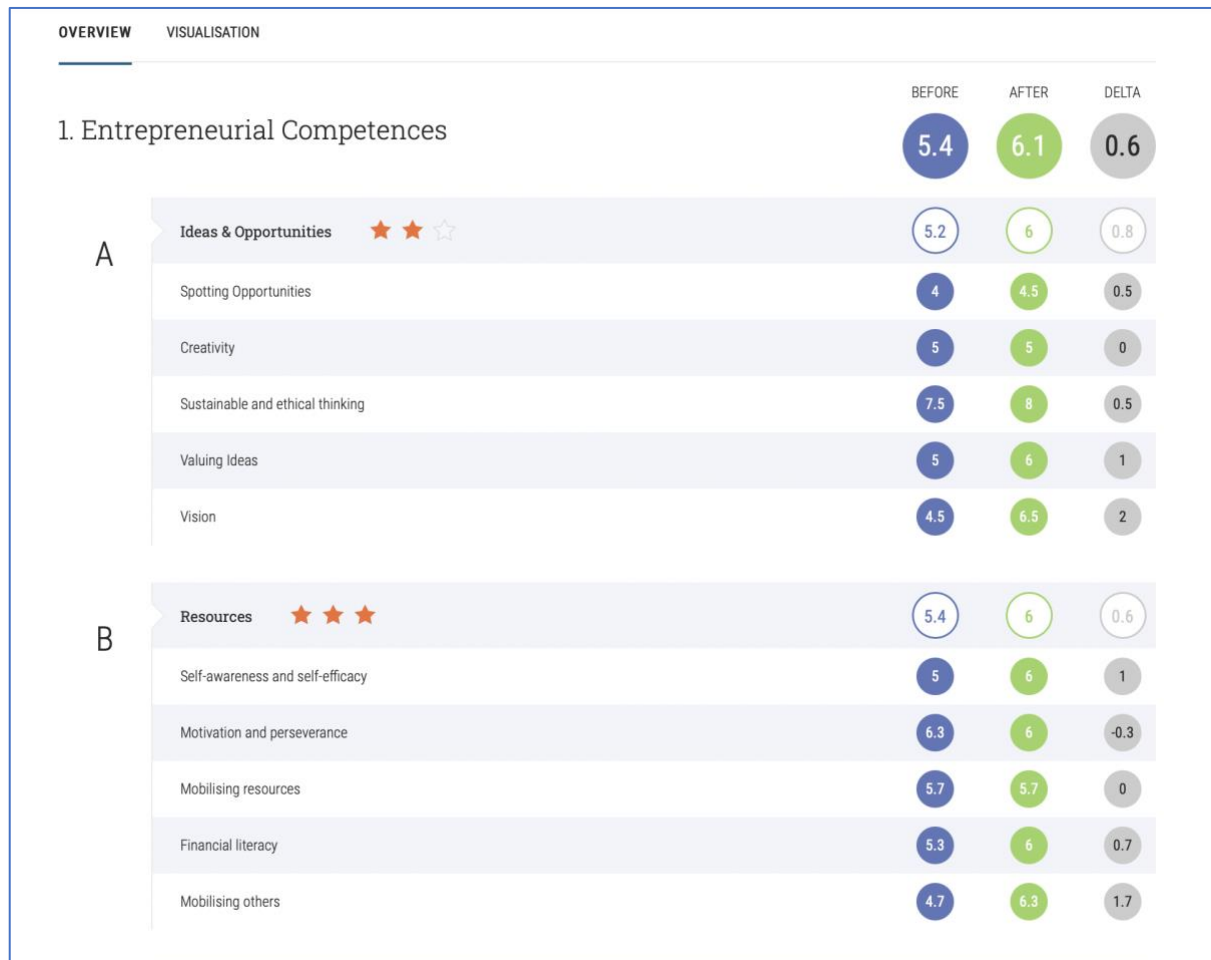
Status: Closed

Re-open this assessment Create a copy of the assessment Share Delete

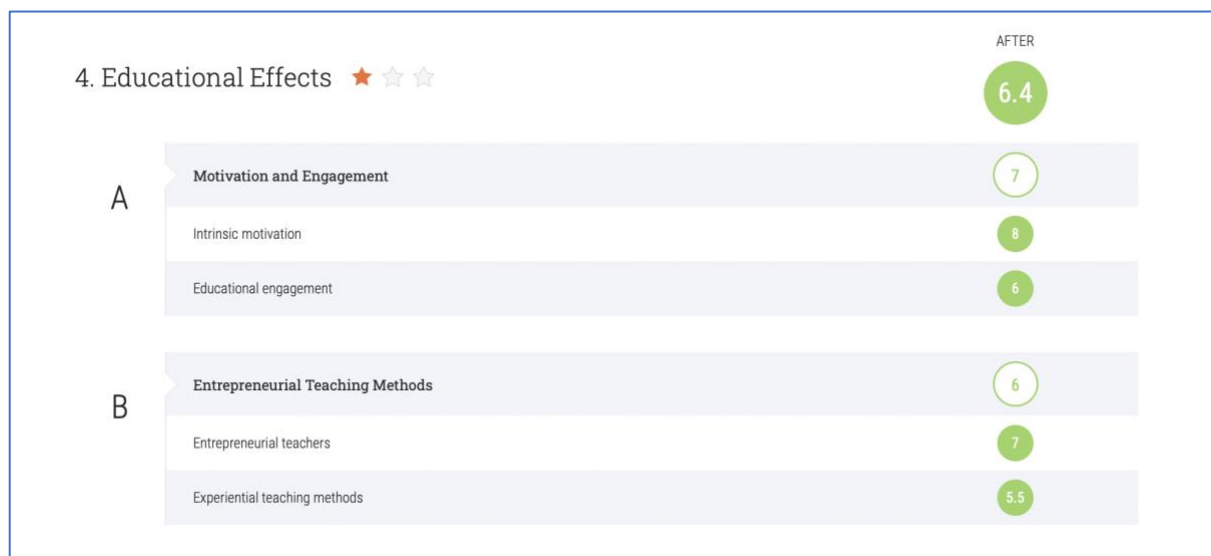
VIEW RESULTS >

2.3 How to access the results of the assessment

If you click on the 'View results' button, you get a quick overview of the aggregated score per assessment area, based on what the course participants filled in for that specific assessment. The results show you the students' assessment before and after the course taken and the change as delta.



For Educational Effects and Entrepreneurial Strategies, the results display is different, as shown in the following pictures.



1. Entrepreneurial Scenarios

The following scores show which entrepreneurial strategies students prefer. A score of 8 in one specific entrepreneurial strategy means that all of the students preferred the given strategy the most, in every situation. A score of 0 means that the students prefer the given entrepreneurial strategy least, in every situation.

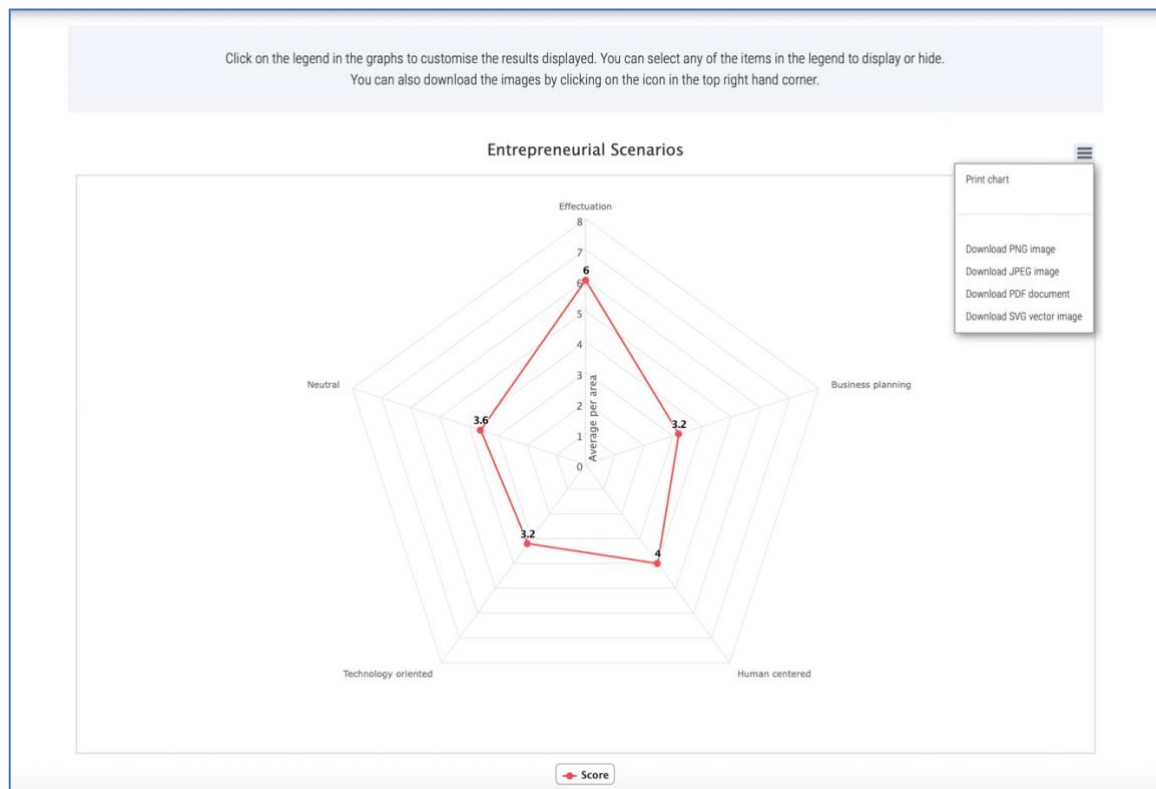
	SCORE
Effectuation	5.6
Business planning	3.2
Human centered	3.6
Technology oriented	4.2
Neutral	3.4

You can download the results as an .xls file as well.

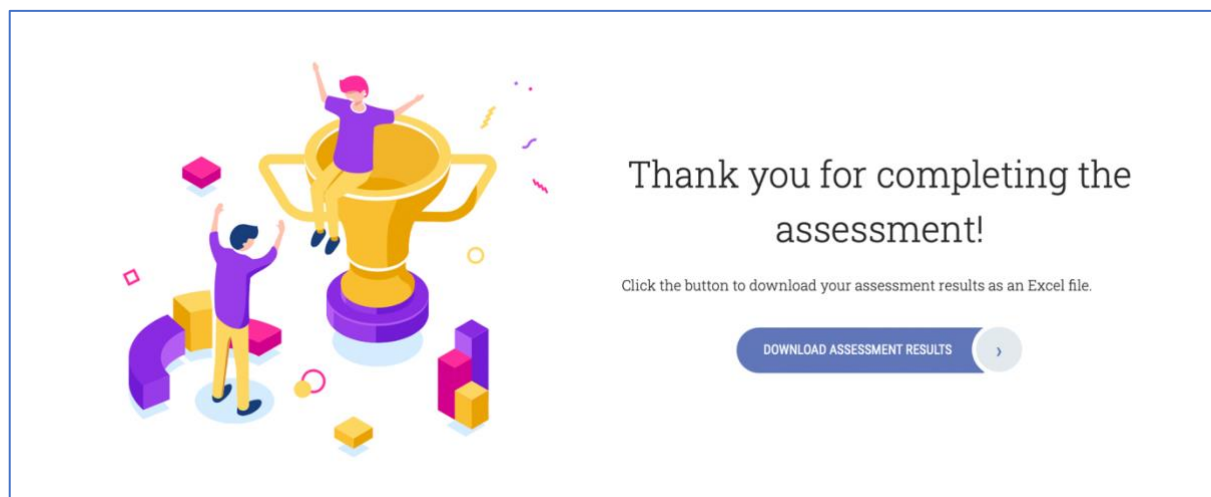
If you wish to see the results visualised, you can create an overview with bar charts and spider diagrams for the different areas.



You can also download these charts in jpeg or other formats (e.g.pdf, png).



Upon submitting their completion, course participants have the option to download their individual results in an Excel file.





If you have any questions or comments, please do not hesitate to contact us at info@heinnovate.eu

