

USER GUIDE

VULCAN

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1. Introduction

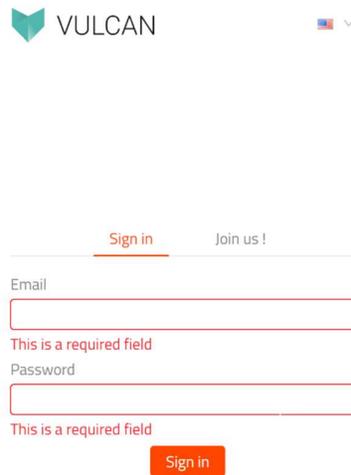
This document is the user guide of the pedagogical online platform: VULCAN.

To access VULCAN, launch your web browser and insert the URL depending on the license you subscribed to:

- For an *AUTONOMOUS* license, the URL matches to the IP address of the simulator (e.g. <http://192.168.0.15:9000/> where "192.168.0.15" corresponds to the simulator's IP address).
- Contact your system administrator to know the simulator's IP.
- For a *CLOUD* license, use the following URL <https://portal.vulcan-edu.com/login>.

2. Identification

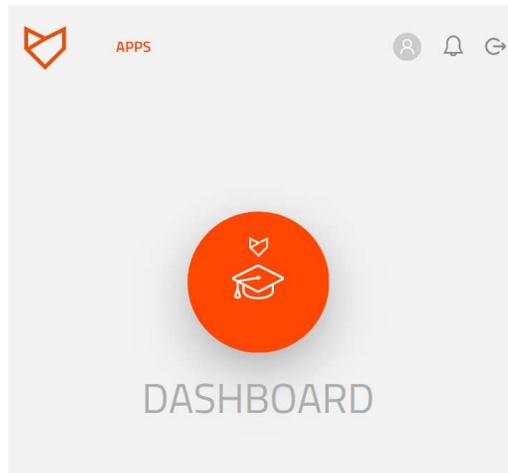
To login, please fill up your username (email address) and your password.



The screenshot shows the VULCAN identification page. At the top left is the VULCAN logo, and at the top right is a language selection dropdown menu. Below the header, there are two links: "Sign in" (underlined) and "Join us!". The main form contains two input fields: "Email" and "Password". Both fields are empty and have a red border. Below each field is a red error message: "This is a required field". At the bottom of the form is a red "Sign in" button.

Figure 1 : Identification page VULCAN

3. Applications



After login in, you can access your Dashboard and other Vulcan APPS.

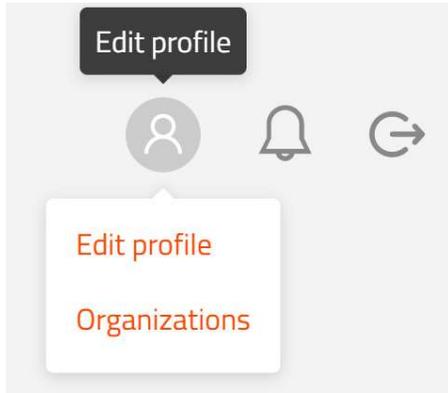
By selecting the Dashboard, you will access your organization or the one you are connected to.

A screenshot of the 'RESULTS' page in the Vulcan APPS interface. At the top left is the word 'RESULTS' in orange. At the top right are icons for monitor, user profile, notifications, and refresh. Below the header is the text 'Results list' and a pagination control showing '< 1 / 1 >'. A summary card for 'Demo Class' (1 student) shows a progress bar, '1 trainee(s) in difficulty', and a 'Success rate 34 %'. Below this is a table with columns: NAME, TRAINING PATH, TRAINING PROGRESS, SUCCESS RATE, and VALIDATED EXERCISE(S).

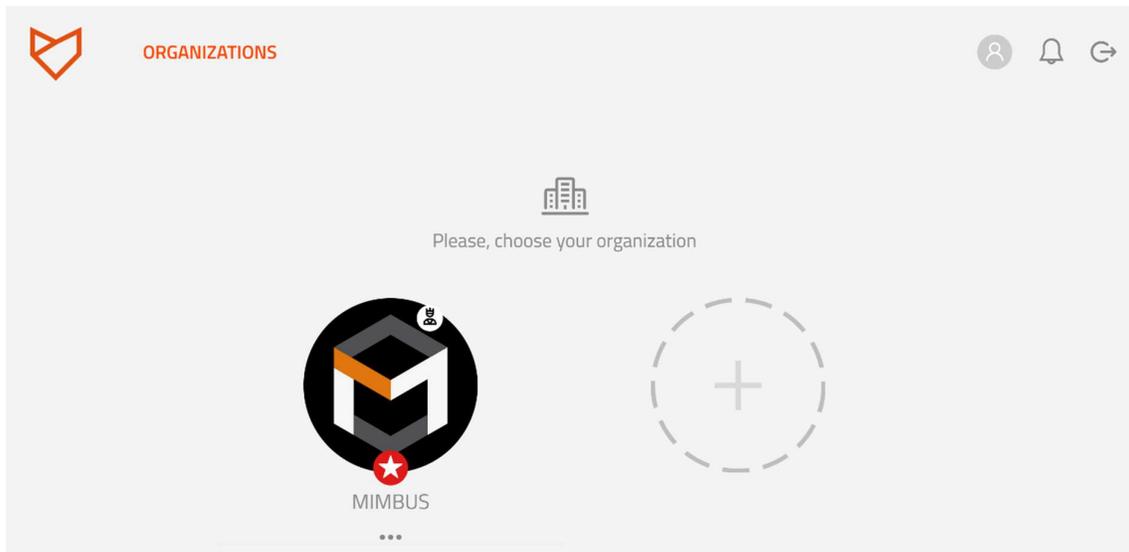
NAME	TRAINING PATH	TRAINING PROGRESS	SUCCESS RATE	VALIDATED EXERCISE(S)
User Test			34%	10

4. Organizations

To choose your organization, select the icon « Edit profile »



Then choose your « organizations »



After choosing your organization, click on the available application.

5. Profile Editing

Personal information

*First name *Last name

Avatar max 512 x 512 jpg / png / svg 

*Gender *Laterality

*Date of birth

Language Time zone

Connection

Email

Password

*PIN code

Organizations

Mimbus ADMINISTRATOR

This * indicates that this is a required field.

6. User Account Types

The features of VULCAN depend on the user profile status:

- **Trainee:** a trainee can only check his/her results and compare those to his/her class results;
- **Trainer:** the trainer manages his/her classes and its pedagogical path
- **Administrator:** the Administrator handles all components of the Dashboard: Pedagogical (results, exercises, learning path) and Administrative (user, classes, licenses).

Features	 <i>Trainee</i>	 <i>Trainer</i>	 <i>Administrator</i>
Seeing the results			
Pedagogical paths Management			
Group Management			
User Management			
License Management			

Figure 2 : Table comparing VULCAN features per profile

7. Interface et Browsing

Once connected to the VULCAN platform and the Dashboard APP, a navigation panel appears on the left side of the screen. This navigation panel is divided in 2 sections.



Section	Component
Education 	Results 
	Exercises 
	Learning Path 
Administration 	Users 
	Classes 
	Licenses 

Figure 3 : Lateral navigation panel



8. Managing Users

Only **Administrators** have access to the "User" section. This section allows to create, edit or delete users.

The screenshot shows the 'USERS' section of a management interface. It features a sidebar with navigation icons, a top navigation bar with user profile and notification icons, and a main content area titled 'Users list'. The user list is a table with the following data:

<input type="checkbox"/>	NAME	EMAIL	ROLE	CLASSES
<input type="checkbox"/>	Nicolas [redacted]	[redacted]	Trainer	
<input type="checkbox"/>	Loic [redacted]	[redacted]	Trainer	
<input type="checkbox"/>	Team Mimbus	[redacted]	Trainer	
<input type="checkbox"/>	Kevin [redacted]	[redacted]	Trainer	
<input type="checkbox"/>	User Test	[redacted]	Trainee	Demo Class

Figure 4 : User Management Page

This page shows the users with their name, email (username), role and the class they belong to.

 This icon allows you to sort the list by selecting a column

Every column shows an information about the user:

- Last name, First name and email address

- The role:

- ✓  **Trainer**
- ✓  **Administrator**
- ✓  **Trainee**

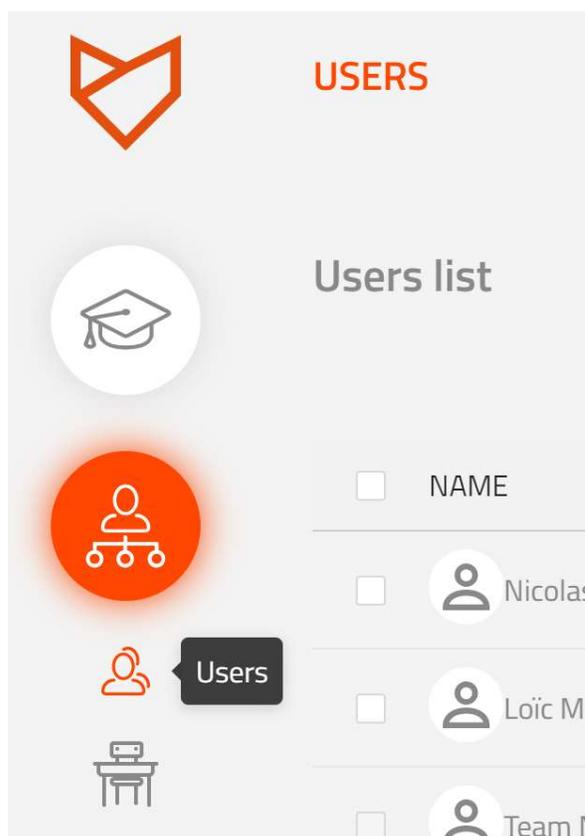
- His / her class

8.1 Create

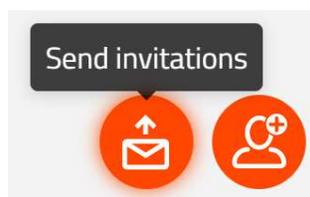
There are two ways to create an account: by email invite or locally (this is exclusively for demonstration with no access to Vulcan)

You will use most of the time the email invite. User can create his/her account by himself and choose his/her password and pin code.

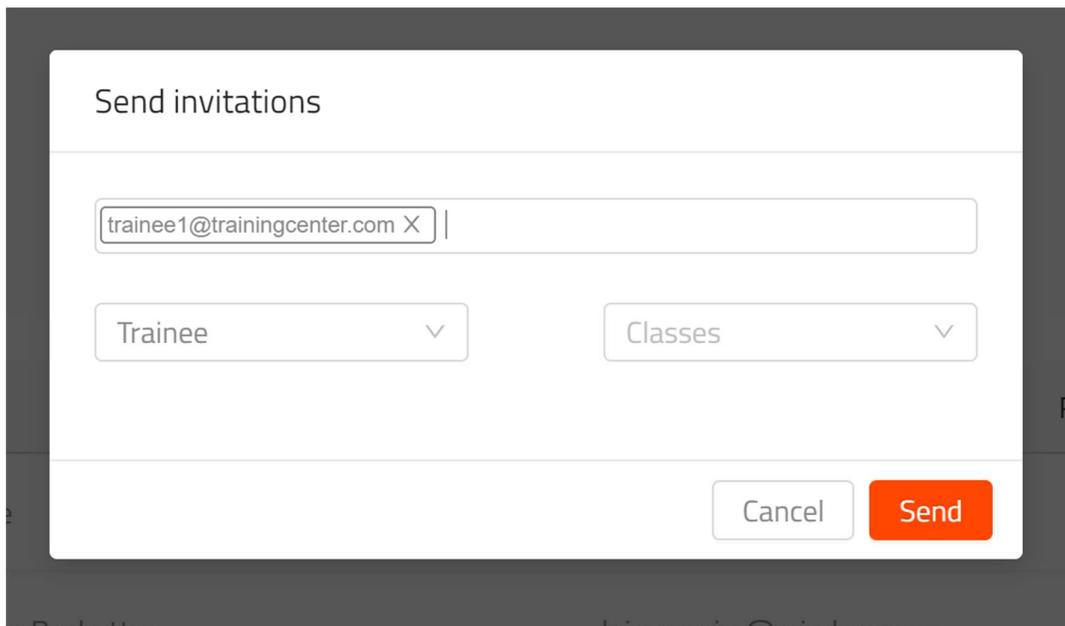
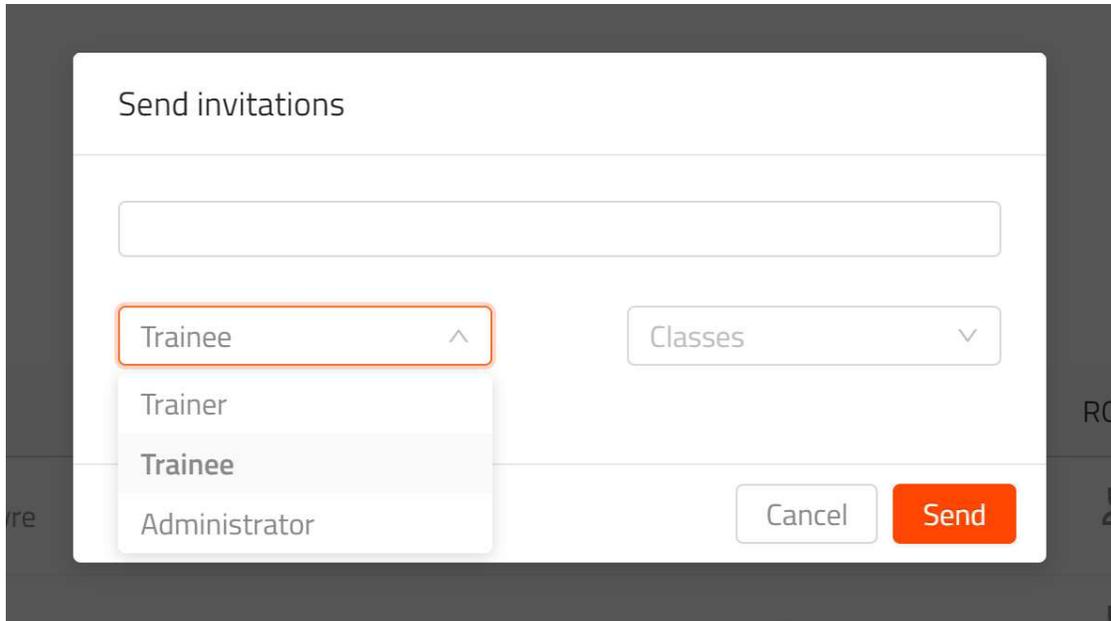
In the left navigation panel, section « Administration », then « User »:



Top right of the screen, please click on the following icon:

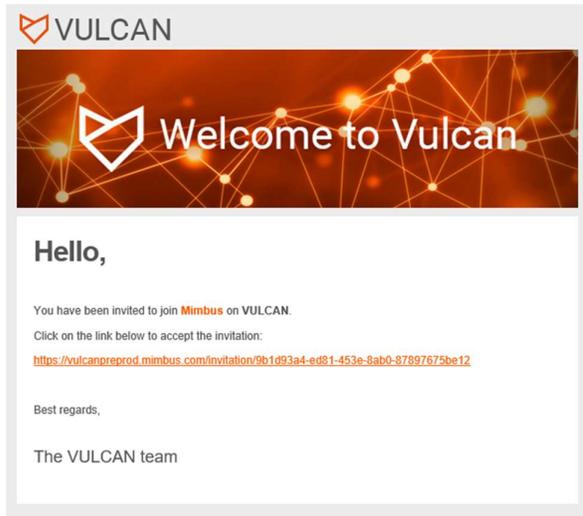


Enter the email address of the person you want to invite, his/her role (ref. to chapter 6: User account type).



Select « Send » once you filled up the required information.

The guest will receive the following email:



Select and click on the link of the email and fill up the field of the following window to create your profile:

CREATE USER

Log in

*Email

*Password

*Confirm password

*PIN code

User information

*First name *Last name

*Gender *Laterality

*Date of birth

Language *Time zone

Password

*Password

At least 8 characters and "Good" mention

*Password *weak*
 At least 8 characters and "Good" mention

*Password *good*
 At least 8 characters and "Good" mention

*Password *strong*
 At least 8 characters and "Good" mention

*Password *stronger*
 At least 8 characters and "Good" mention

PIN Code

The PIN Code must contain 4 digits. You need it to access the simulators.

Indications will be display when entering you PIN:

*PIN code ⓘ
 The PIN code must be 4 numeric digits and not contain any letters or spaces.

Gender:

*Gender ^
 Male
 Female

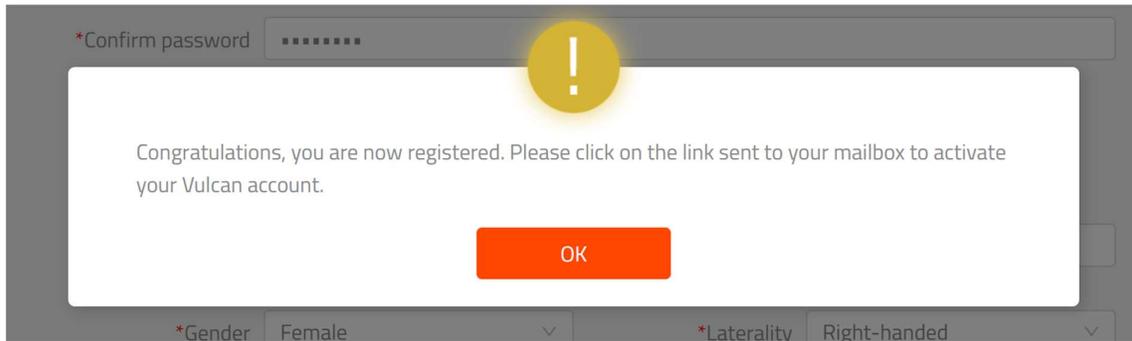
Laterality:

*Laterality ^
 Right-handed
 Left-handed

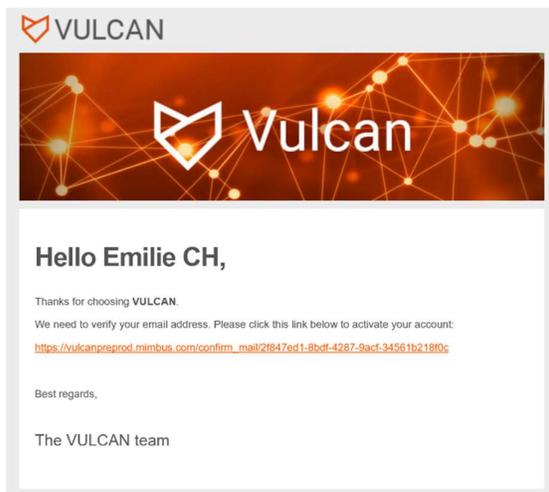
Language:



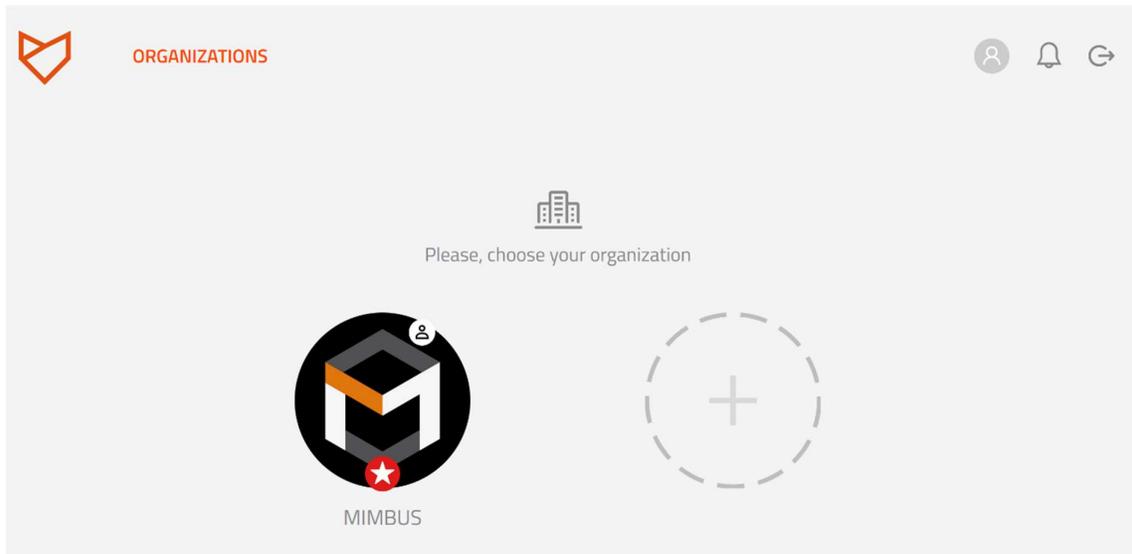
Click on OK once you completed you profile.



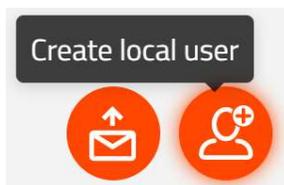
Then, the guest will receive the following message:



Once your email and account entered you will be redirected to this page:



Create a local user:



USERS

CREATE LOCAL USER

Log in

*Email

*Password

*Confirm password

*PIN code

User information

*First name

*Last name

Gender

Laterality

Date of birth

Language

Time zone

Other information

Profile

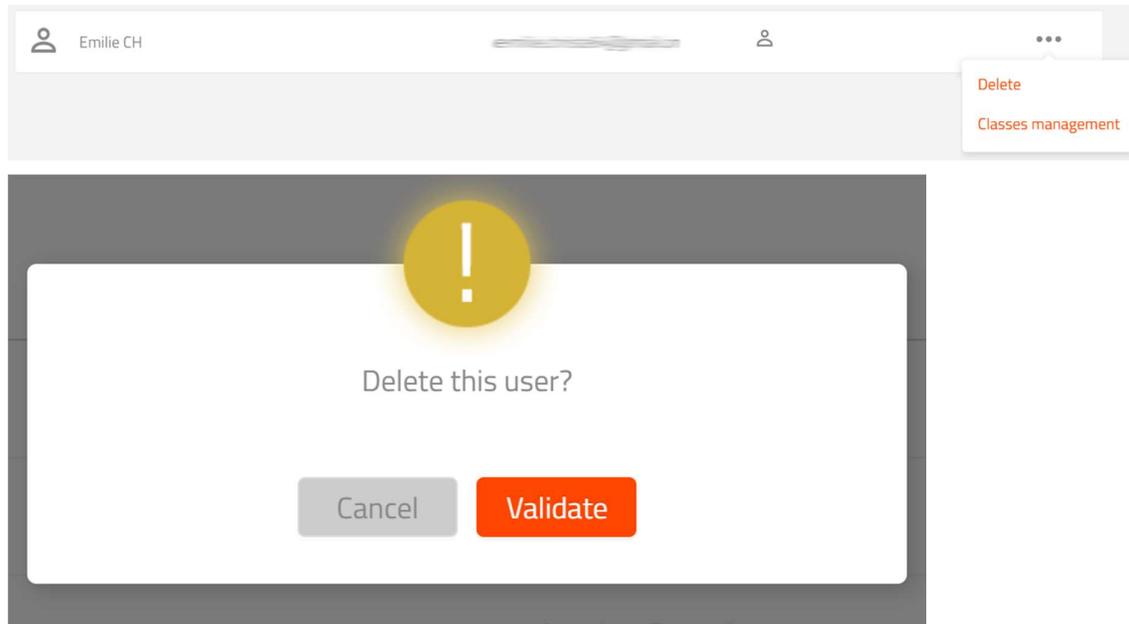
Classes

Do not edit the suggested email address.

Once all the fields are filled, you must click on "Validate".

8.2 Delete

To delete a user, move the cursor on the right side of the list, click on the three dots next to the username, select "Delete".



Click on « Validate » to register.



9. Managing Classes

A class is composed of trainees. To allocate a class to a trainee, you must be an **Administrator** or a **Trainer**.

To access class management, go to Administration then choose « Classes »

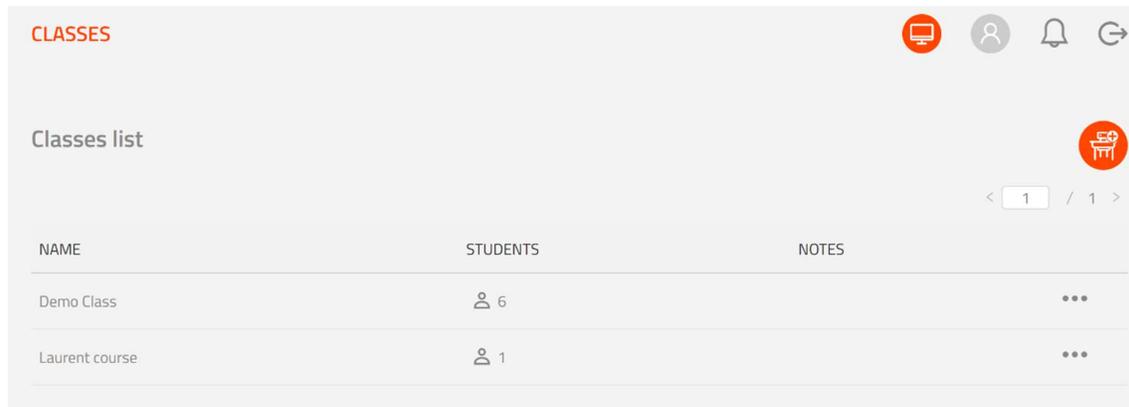


Figure 5 : Class Management Page

9.1 Create

To create a new class, click on « Create a new class » on the top right of the page. Then, choose and enter the class name.

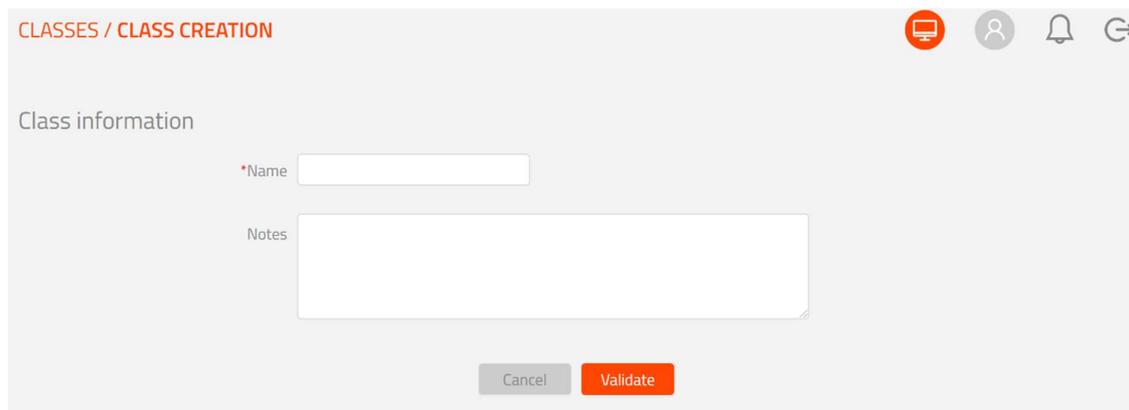


Figure 6 : Create a Class

To register, click on « Validate ».

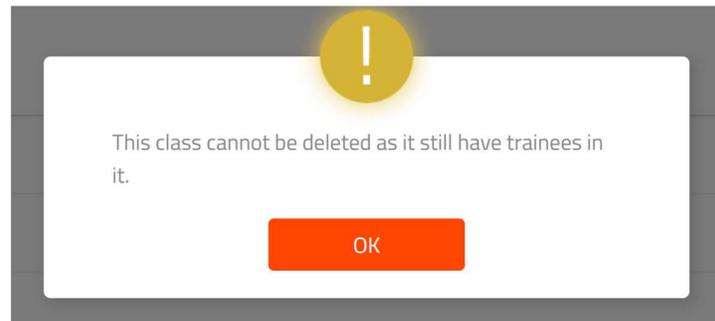
9.2 Modify and Delete

To modify or delete a class, open the contextual menu and click on the dots **...** on the right side of the row:

NAME	STUDENTS	NOTES
Demo Class	 6	 Edit Delete
Laurent course	 1	

Figure 7 : Class Contextual Menu

NOTE: You cannot delete a class if at least one user is assigned to it.





10. Managing Exercises

Only **Trainer** or **Administrator** have access to the «Exercises » section.

In this section you can create exercises by creating editable copies or modifying the parameters.

Exercises are classified by modules:

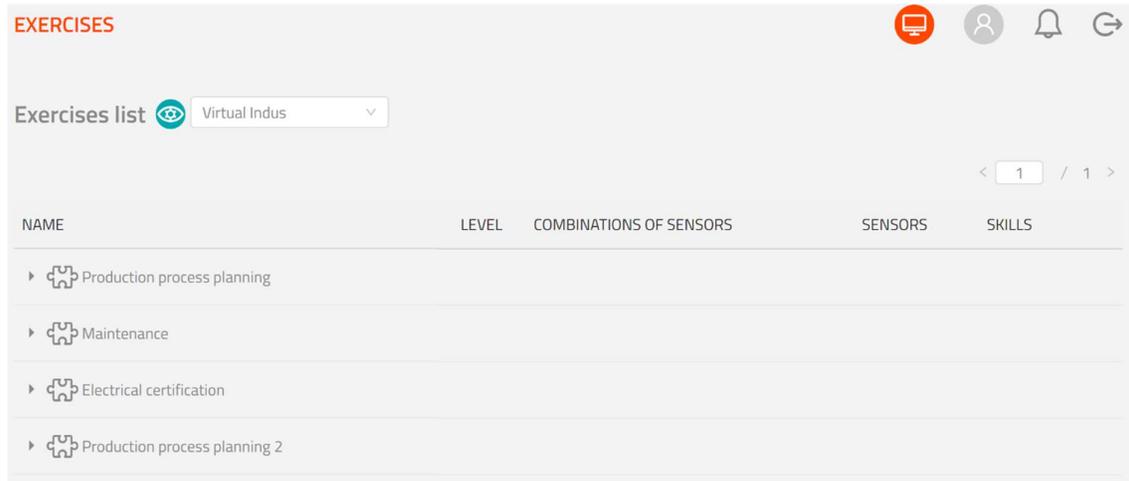
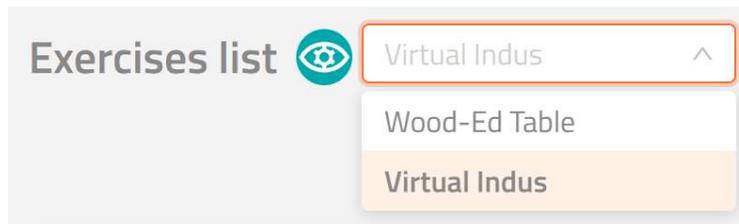


Figure 8 : Exercises Management Page

You can select the simulator and its exercises thanks to the drop-down menu.



Every element of the list gives general information about the exercise:

-  This icon indicates that this is an exercise by default. It cannot be modified nor deleted. You can create a copy of the exercise that will not be marks as default;
-  Indicate that this is a personalized exercise.
-  Indicate that this is an exercise by default with variants. (Choice of sensors to evaluate - see chapter [10.1.5](#))
- Exercise name;

- 
 Indicate the number of sensors (4 in the example) that you can control in the exercise:



Execution time, Security, Scenario completion and Execution quality;

- 
 Indicate the skills (3 in the example)



Speed, Accuracy, Security;

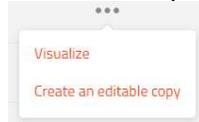
- 
 This icon indicates the level of difficulty of the exercise. For one plain circle the level is « Beginner », two « Advanced », three « Expert »;

- 
 Indicates the number of sensors that can be control during an exercise;

On the right side of the exercise row, the following three dots allows you to open the menu .

Choose « Visualize»  to modify the exercise, then select « Create an editable copy »

to create a personalized exercise.



10.1 Detailed information

To access detailed information of an exercise, click on the three dots located on the right side of the

row , then select « Visualized » 

When this is an exercise by default the following error message will pop up:

 This is a default exercise created by the simulator's editor. You can not edit it, but you can create an **editable copy**

Click on « Editable copy » and the exercise will duplicate.

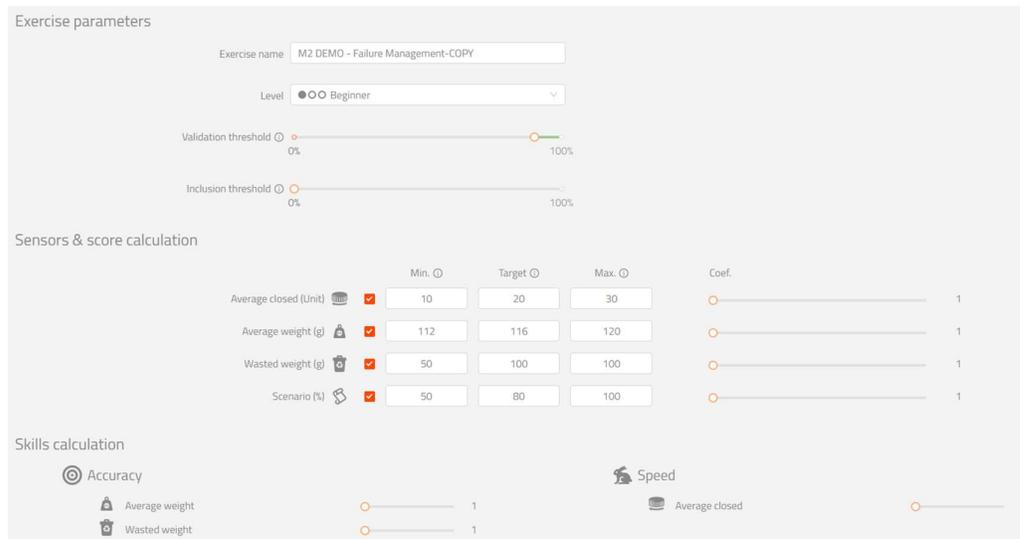
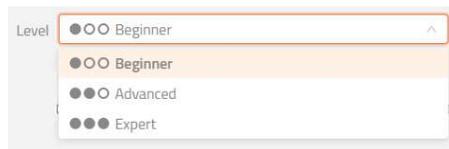


Figure 9 : Detailed Information of an Exercise

10.1.1 Exercise parameters

- Exercise name
- Level



- Validation threshold: this is the threshold that need to be reached to succeed an exercise (when a trainee is doing an imposed learning path, he/she must reach this threshold to access the next exercise).
- Inclusion threshold: this is the threshold required to include the results of the exercise in Vulcan from the simulator. This is included in the calculation of the "Results"

10.1.2 Sensor and Score Calculation

The learning sensors allows to calculate the score of the exercise. Each learning sensor matches a measurement point of the simulator and includes thresholds.

Each sensor has a coefficient used to calculate the overall score of the exercise.

10.1.3 Skills Calculation

The coefficient of each sensor can be modified to highlight the most important one in the overall results.

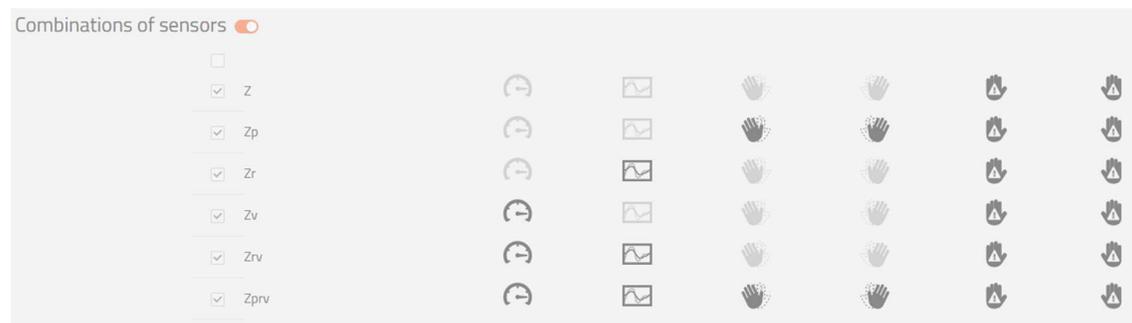
Speed, Security, Quality and MCQ (questionnaire)

10.1.4 Simulation Variable

Each simulator has its own sensors. This interface allows you to change its value for each exercise. These variables allow you to modify parameters of the exercises (for instance, change the MCQ).

10.1.5 Sensor Combination

Some exercises include variables to track different sensors. You can select several variables by ticking the left box and modify the execution order by selecting them and dragging them on the line above or below.



10.2 Create

To create an exercise, you must copy an existing one.

To create the copy of an exercise, open the contextual menu of the chosen exercise clicking on the three dots **...**, then select the option "Create an editable copy". The new copied exercise appears in the list, with the same name as the original followed by "- Copy":

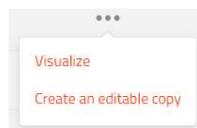


Figure 10 : Create an Editable Copy

10.3 Modification

To modify an exercise, open the contextual menu of the chosen exercise clicking on **...** located on the right side of the list element. Click on "Visualize":

If this is a default exercise  or 

Click on the **...** that allows you to create an editable copy

If this is a personalized exercise



edited it in the contextual menu.

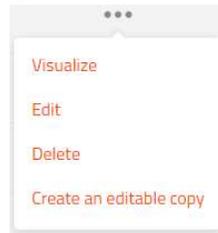


Figure 11 : Edit an Exercise

If you “Validate”, the exercise is immediately updated, and the data are recorded.

Attention! if you modify an exercise that is already assigned to a learning path, it will modify the learning path with the new settings of the exercise.

10.4 Delete

To delete an exercise, open the contextual menu of the chosen exercise and click on **...**, located on the right side of the element in the list, then click on the option “Delete”

Note:

- This option is not available for default exercises (identify by );



11. Managing pedagogical paths

Learning paths represent a sequence of exercises that trainees must complete. Only **Trainer** or **Administrator** can manage learning paths by selecting the "Education" section, then "Learning path".

LEARNING PATHS	LEVEL	EXERCISES	ASSIGNED TRAINEES
Virtual Indus : Tous les exercices	●●●	36	0
Virtual Indus - Initiation (demos)	●○○	4	4
Intuition on Maintenance	●○○	3	2

Figure 12 : Learning Path Management Page

The list of learning paths as well as a toolbar on the top of the page allow searching for a path, sorting the list and creating new paths.

Each element from the list gives general information on the path:

- Learning path name;
- ●●○ This icon indicates the difficulty level of the exercise. For one plain circle the level is « Beginner », two « Advanced », three « Expert »;
- *Exercises* indicate the number of exercises assigned to the learning path;
- *Assigned Trainees* indicate the number of trainees using the learning path.

11.1 Detailed information

To access the detailed information of a learning path, click on 1 element from the list. Open the contextual menu of the exercise by selecting **...**

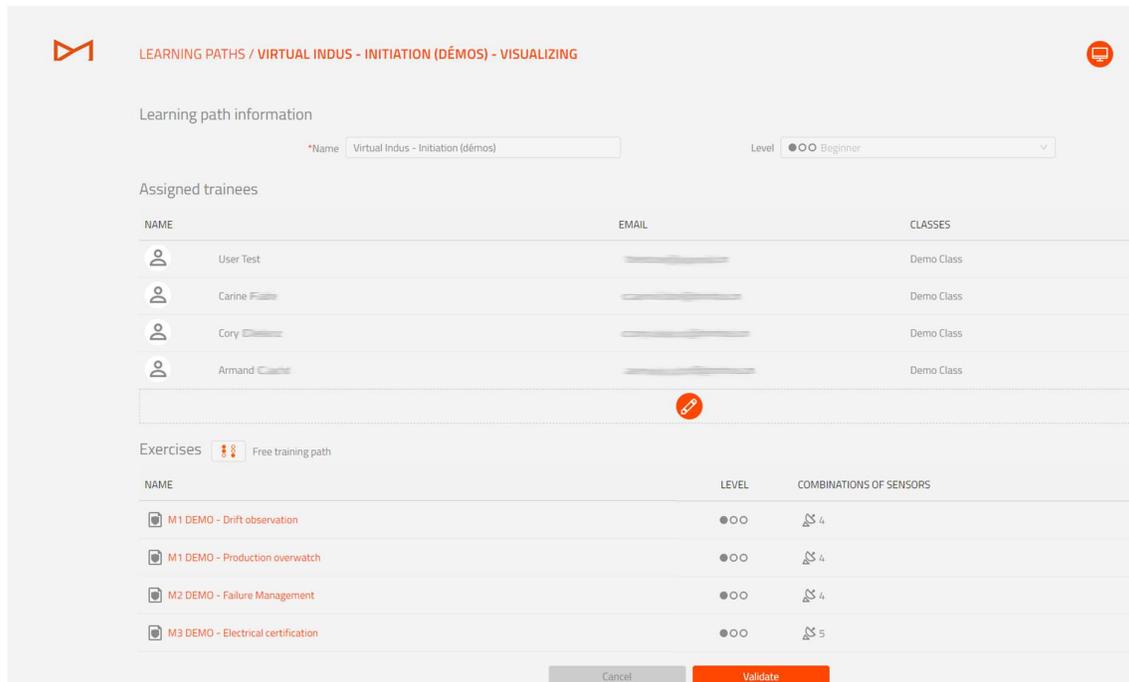
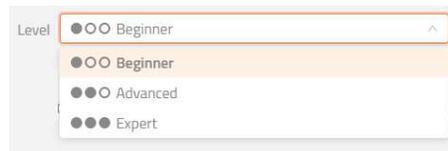


Figure 13 : Detailed Information of a Learning Path

Details are divided in 3 elements:

- *Learning path information*

To visualize and modify the learning path name and its level of difficulty.



- *Assigned trainees*

To visualize and remove a trainee from a training path.

- *Exercises*

To visualize and remove exercises from the learning path and choose if this is imposed or free training path:



11.2 Create

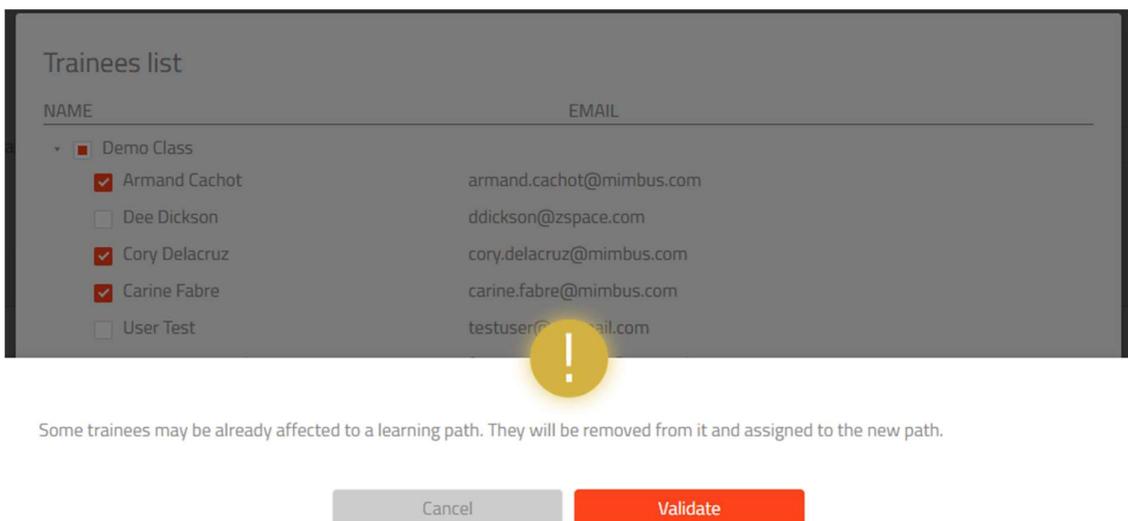
There are two different ways to create a learning path:



- Click on « Create learning path » on the top right of the page
The creation form appears:

You must choose a name and its level of difficulty (Beginner, Advanced, Expert), then you can assigned exercises by clicking on the pen .

Save by clicking on « Validate ».



Some trainees may be already affected to a learning path. They will be removed from it and assigned to the new path.

Figure 14 : Create a Learning Path

- By duplicating an existing learning path: on the right side of the learning path, click  and "Duplicate":

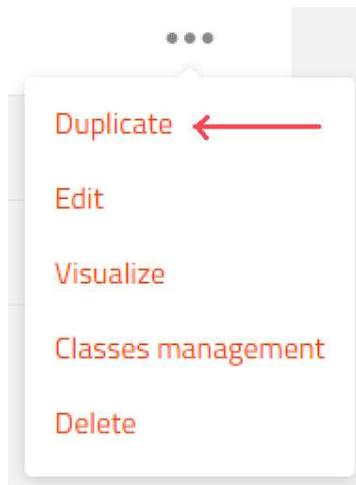


Figure 15 : Duplicate a Learning Path

The copy will be display in the list. It has the same name followed by «-copy ».

11.3 Editing

Edit a learning path by clicking on the contextual menu **...** on the right side of the list then click on « Edit ».

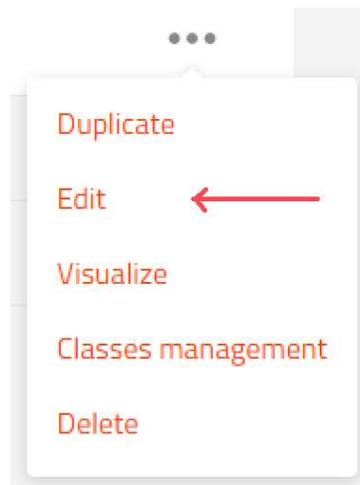


Figure 16 : Edit a Learning Path

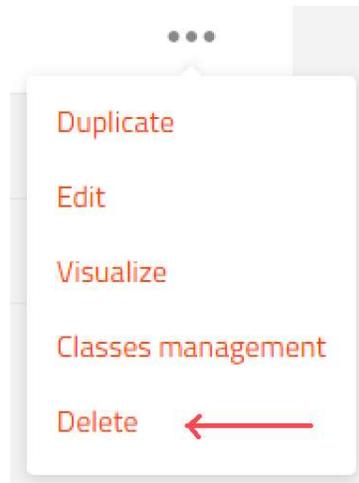
You can edit the following information:

- Learning path name;
- Difficulty level;
- Trainee's assignation;
- Exercise's assignation;
- Exercises order in the learning path;
- Choose free training or imposed training path thanks to the following buttons:



11.4 Delete

To delete a learning path, open the contextual menu of the learning path **...** and select « Delete ».





12. Results

Trainee, Trainer and Administrator can access this section. You can see the overall results of a group, a class and analysis of an individual progression. Trainees can only see their own results.

In this section, if there are several classes, you can select it from a list, for each class, you have an overall visual of their results as well as a progression circle:

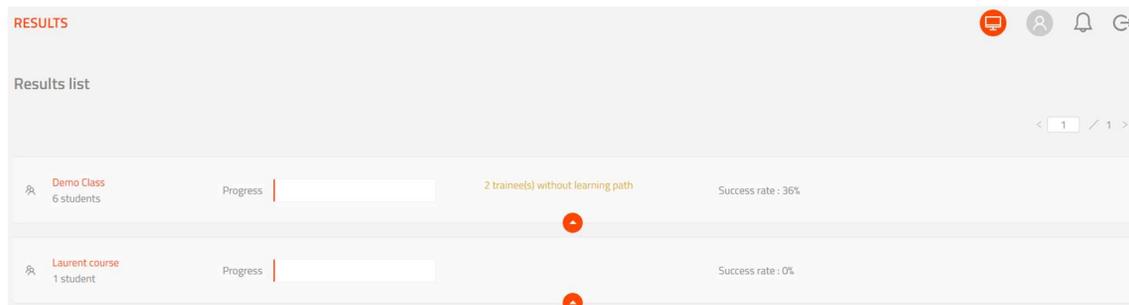


Figure 17 : Class Results

Click on , the list of trainees assigned is display.

For each trainee, you will see the following information:

- *Learning path type:* imposed or free
- *Pedagogical path:* the progress of each trainee. The name of the learning path appears when the mice is on the bar.
- *Progress:* a curve shows the trainee's progress
- *Success rate:* a percentage show the global success rate of the trainee;
- Validated exercise(s):

To access the detailed results of a trainee, select an element of the list and open the contextual menu

...

NAME	TRAINING PATH	TRAINING PROGRESS	SUCCESS RATE	VALIDATED EXERCISE(S)
User Test			50%	6
Formateur Mimbus	No learning path assigned	-	-	-
Carine Fabre			-	-
Cory Delacruz			45%	5
Armand Cachot			50%	2

12.1 Trainee's Detailed Statistics

To display a trainee's progress, click on his/her name in the class list.

This page looks like the same than for the group detailed, figures and graph have the same meaning.

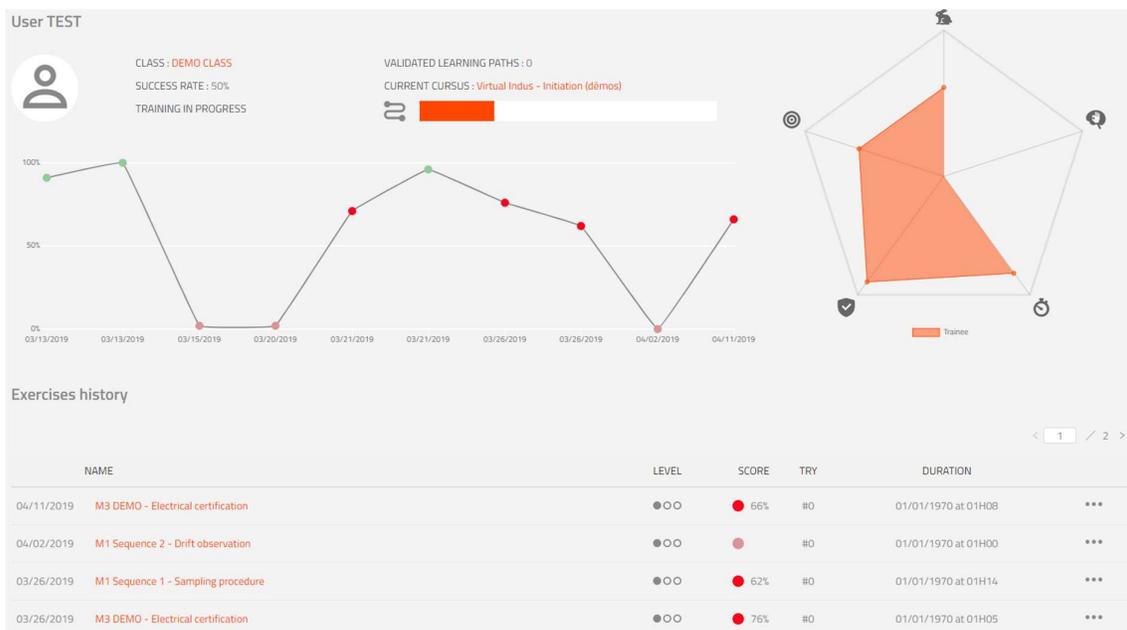


Figure 18: Results of a Trainee's Exercise

The first graph of data along a graduated ax display the progress of a trainee in relation to his overall path.

A second radar chart represents the scores of the audited skills during the exercises.

The last section « Exercises history » list all exercises of the learning path.

Each element of the list gives general information on the exercise and its results:

- Exercise name;

- ●●○ This icon indicates the difficulty level of the exercise. For one plain circle the level is « Beginner », two « Advanced », three « Expert »;
- The following symbols represent the exercise score:

- ✓  The exercise is successfully done, the percentage appears on the right side.
- ✓  The exercise stopped because of a fatal error. The score will be included on the global score.
- ✓  The exercise is done but the system did not validate it. No percentage is displayed, and this exercise is not included in the overall score.

If you click on the exercise in the list, you will see the details:

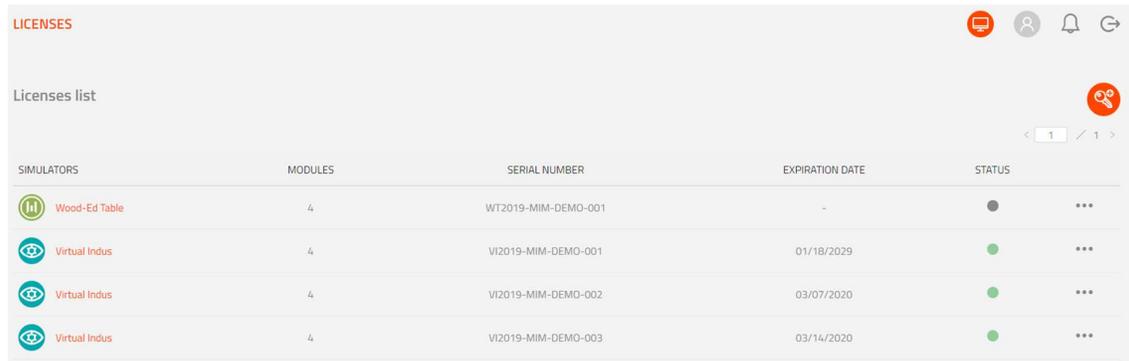


Figure 19 : Detailed Results of an Exercise



13. Managing Licenses

In this section you see which license is assigned to your organization and their details.



SIMULATORS	MODULES	SERIAL NUMBER	EXPIRATION DATE	STATUS
Wood-Ed Table	4	WT2019-MIM-DEMO-001	-	●
Virtual Indus	4	VI2019-MIM-DEMO-001	01/18/2029	●
Virtual Indus	4	VI2019-MIM-DEMO-002	03/07/2020	●
Virtual Indus	4	VI2019-MIM-DEMO-003	03/14/2020	●

13.1 Create a license

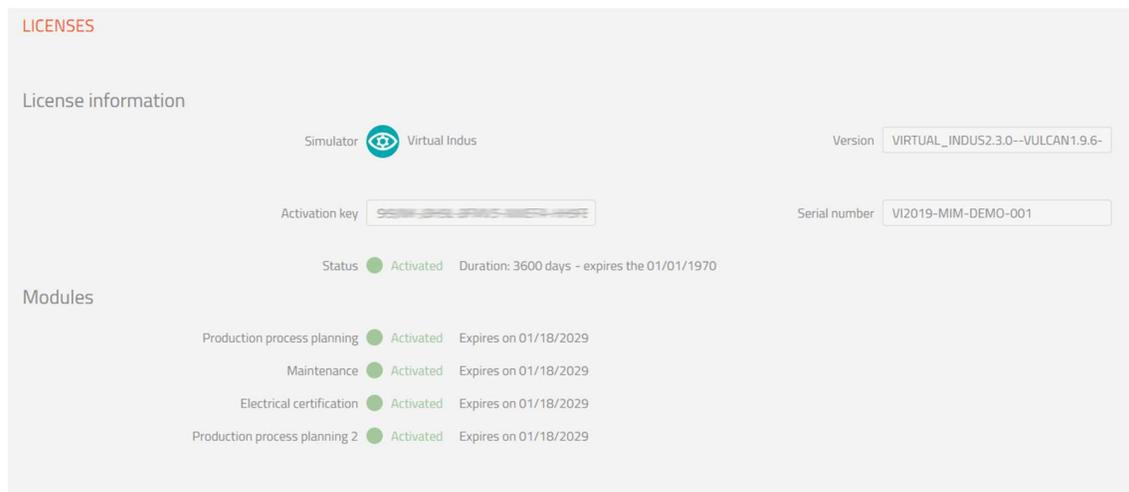
To create a license, click on this icon



A pop up will display where you must enter the license key provided by your dealer or MIMBUS.

13.2 License details

Click on the license name.



License information

Simulator:  Virtual Indus

Version: VIRTUAL_INDUS2.3.0--VULCAN1.9.6-

Activation key:

Serial number: VI2019-MIM-DEMO-001

Status: ● Activated Duration: 3600 days - expires the 01/01/1970

Modules

- Production process planning ● Activated Expires on 01/18/2029
- Maintenance ● Activated Expires on 01/18/2029
- Electrical certification ● Activated Expires on 01/18/2029
- Production process planning 2 ● Activated Expires on 01/18/2029

License information: simulator type, serial number, license status, serial number of the simulator;

Modules: list of modules available linked to your license.