

Modum Industry

Virtual reality classroom

VR simulator packages for industrial and vocational education purposes



Modum Industry

We develop VR/3D solutions for personnel training at industrial plants and digital tools that allow whole corporate simulator complexes to be combined into one system, and for simulator complexes to be created and kept up to date according to unified standards.



 The largest implementation in Russia

Our solutions offer the following benefits



Risk reduction

Reduction of risks related to personnel health and equipment integrity



Higher productivity

Increased productivity due to faster adaptation and fewer human errors



Lower expenses

Cost savings for full-time training, which doesn't require equipment shutdown or full-scale models



Skill acquisition

On top of receiving theoretical knowledge, the employees experience training situations that help them practice until it becomes second nature



Mobility

On-site training can be conducted at convenient times, doesn't require work trips, and there's no limit in throughput capacity specific for physical training simulators



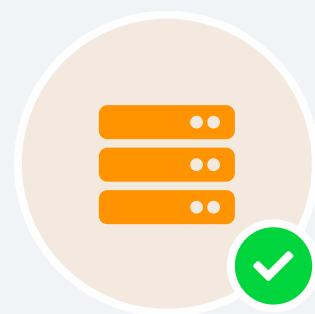
Qualification test

Evaluation of the employees' knowledge and skills in a simulated situation

End-to-end solution

Modum Industry virtual classroom comprises a digital content management system, a catalog of VR simulators, and a wide range of important equipment.

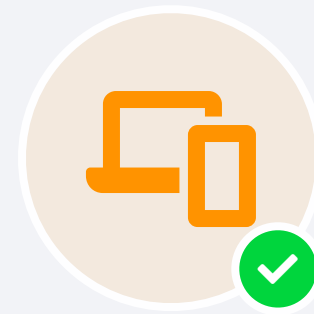
Modum Lab covers all requirements for complex project implementation, from gathering requirements and development, to equipment delivery, integration and support for further development of projects.



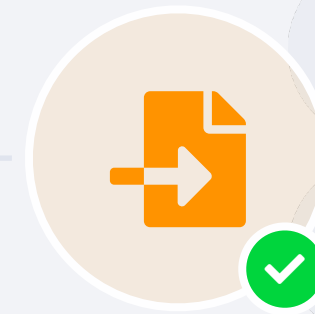
Modum CMS
management
system



Catalog of
products



Classroom
equipment



Integration and
support

Modum CMS

Modum CMS allows a whole complex of corporate simulators to be combined **into a uniform system** providing standards for management and updates.

Integration with the customer's corporate LMS allows Modum CMS to build simulators to a unified educational trajectory, reducing operational costs and providing computer-based training for employees.



Options



User management

- ✓ New user registration;
- ✓ Role and group assignment, import of data from corporate systems;
- ✓ Management of access to education materials.



Content management

- ✓ Adding simulators developed by the third-party vendors;
- ✓ Ability to change simulation walkthrough scenarios;
- ✓ Central management for all simulators irrespective of their developers.



Single training application

Launcher, a special application compatible with PCs, mobile and VR devices, will be installed on the necessary devices.

It allows employees and partners to log in to their accounts and get access to all the assigned simulators.

Compatible devices

The system is compatible with all standalone and stationary VR headsets, PCs, and smartphones currently on the market.

Stationary



Vive Cosmos



HP Reverb



Vive Pro

PCs and smartphones

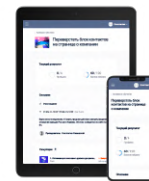


 OS Windows

 Astra Linux



 Android



 iOS

Standalone



Vive Focus 3



Oculus Quest 2



Pico VR

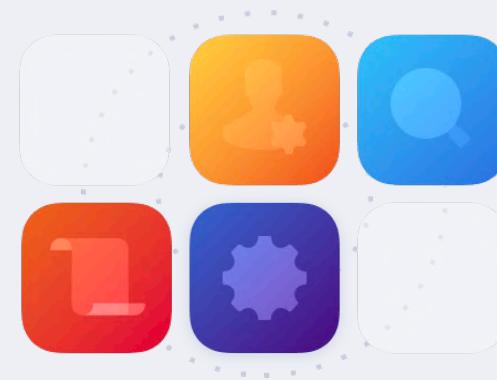
Integration options



With corporate solutions

The platform supports domain-based authentication. Rank/position, division, role and other parameters can be taken into account.

The received data allow tasks to be assigned depending on user roles.



With corporate LMS

Simulation models can be launched directly from the LMS interface. When a simulator or model is updated the user needs only to press one key to activate to the latest version.

Any data from completed models can be sent to the corporate LMS's analytical data processing system.



With technical services

The platform seamlessly integrates with corporate event logging systems for gathering service and technical information according to the requirements of corporate IT security services.

Catalog of finished products and systems



Modum CMS and Modum SimForms



VR simulators for profession-oriented equipment servicing colleges



Occupational health and safety



Defensive driving



Medical VR simulators for colleges and higher educational institutions



Communication simulators



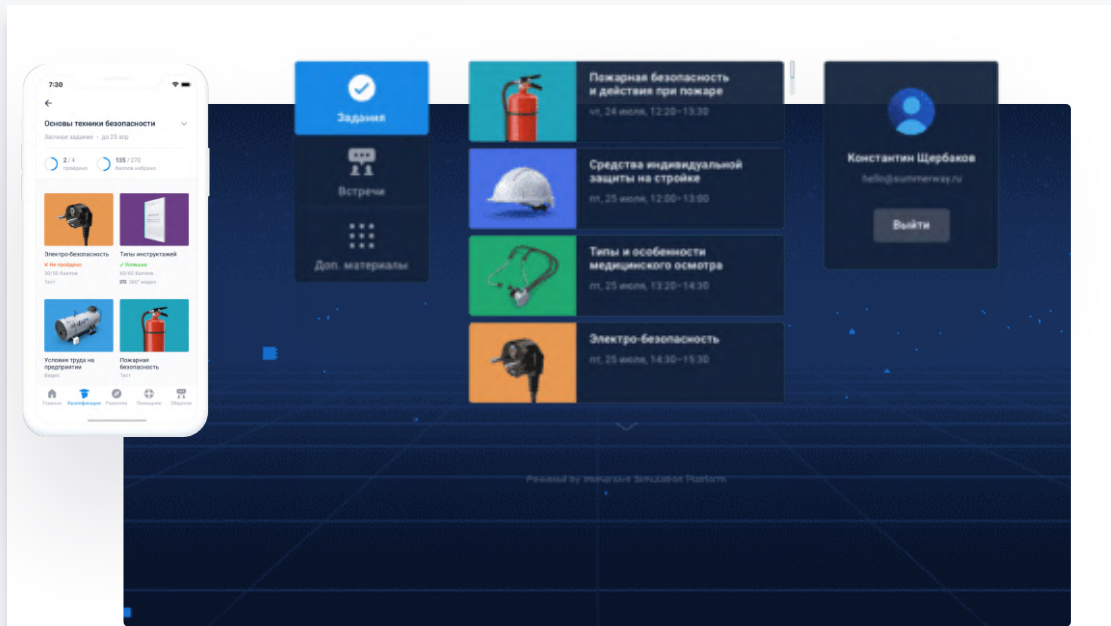
Digital robotics workshop



All Modum Industry products are registered in the national software register



Modum CMS



Automated Electronic Simulator Control System

- Fully integrated cycle of learning and training
- Quick and easy installation of simulators
- Version control and updates
- Reuse and distribution
- Centralized collection of analytics
- Copy protection



Modum SimForms

Вывод в ремонт сборных шин КРУ 6 кВ Р1

Конструктор сценариев

ИМЯ	РОЛЬ	ДЕЙСТВИЕ	ОБЪЕКТ	ОПИСАНИЕ	УСЛОВИЕ ДОСТ
2 C2	НС	Сообщить по радию	Правильно, выполняйте	По радию слышны слова НСС: «Правильно, выполняйте»	
3 C3	В	Сообщить по радию	Понял. Выполняю	Выполняющий говорит по радию: «Понял. Выполняю».	
4 C4	В	Отметить в документе	Оперативный журнал	Выполняющий кликает по оперативному журналу. В сплывающем модальном окне подтверждает намерение внести новую запись в оперативный журнал.	
5 C5	К	Взять объект	Бланк переключений	Берет со стола бланк переключений	
+					
БП №1 Р2 ячейка 1. УСТАНОВИТЬ ключ SX3 АВР в положение «О» 14					
7 C7	К	Произнести реплику	Р2 ячейка 1 и ключ SX3 АВР	Зачитывает по ТБП «Р2 ячейка 1» и «ключ SX3 АВР»	
8 C8	В	Осмотреть объект	Ячейка 1 Масленичный зал / КРУ 6 / Р2	Проверяет по надписи оперативное наименование присоединения: Р2 ячейка 1	
9 C9	В	Произнести реплику	Р2 ячейка 1	Произносит оперативное наименование присоединения: Р2 ячейка 1	

3D/VR Simulator Building and Editing System

Modum SimForms is designed to build and edit training simulators ensuring process standardisation and accumulation of a database of interactive objects.

- Standardized simulator development processes
- Making scenario debugging easier at the development stage
- Making changes to the scenario without calling on the developer
- Reuse of created interactive 3D models
- Non-linear scenarios and multi-user scenarios

✂ VR simulators for profession-oriented equipment servicing colleges



Automatic Group Measuring Station / Gas Pumping Unit (VR)

The VR simulator complex ensures users cultivate practical skills in servicing, repair, and maintenance of oil and gas equipment.



Switching training simulator (VR and 3D)

Simulator for technological process management skill acquisition.

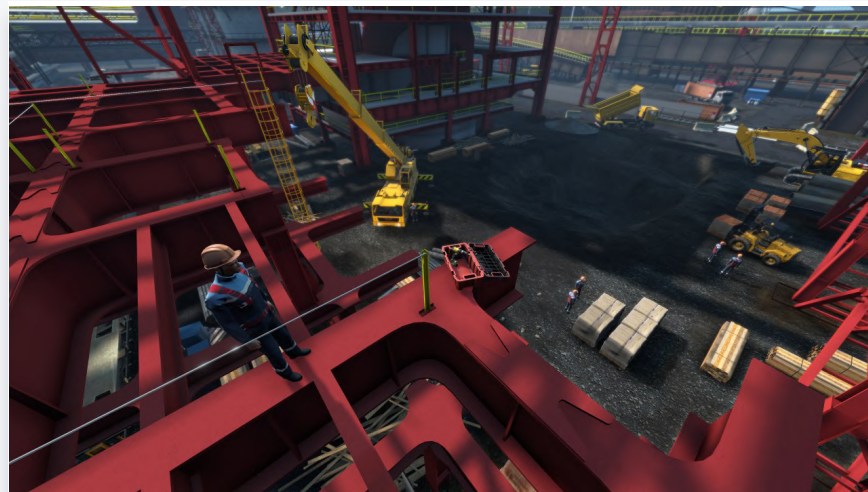


Crane operator (VR and 3D)

Simulator for crane operator skills acquisition (shift takeover, routing work, emergency situations).

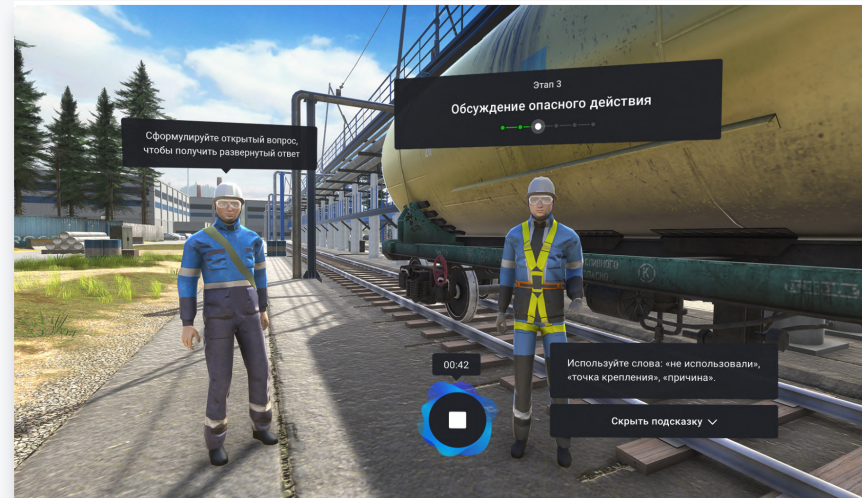


Occupational health and safety



Working at height (VR)

The VR simulator helps form the necessary safe habits for working at heights.



Leadership Behavioral Safety Audit (VR)

Simulator for leadership behavioral safety audit at an enterprise.

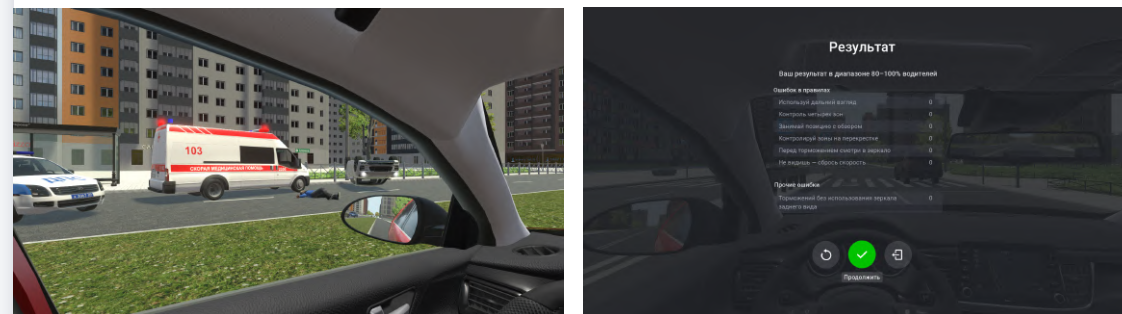
The trainee is assigned the role of an auditor who must detect violations and the causes of emergency situations and provide feedback to the bot that did the violation.



Fire safety training simulator (VR and 3D)

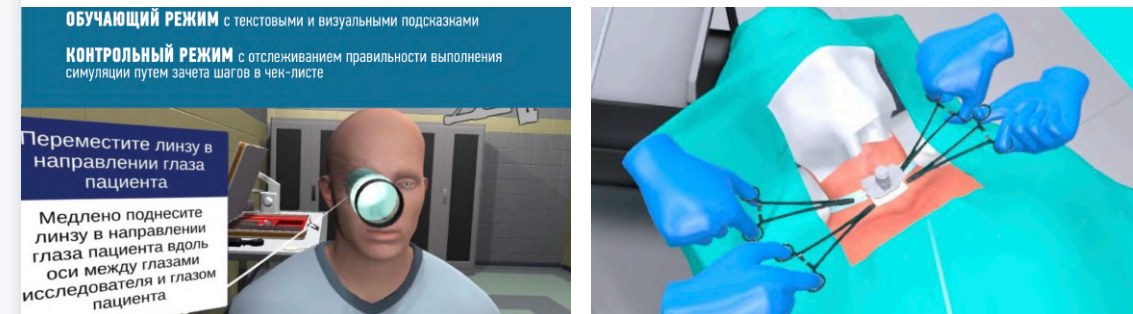
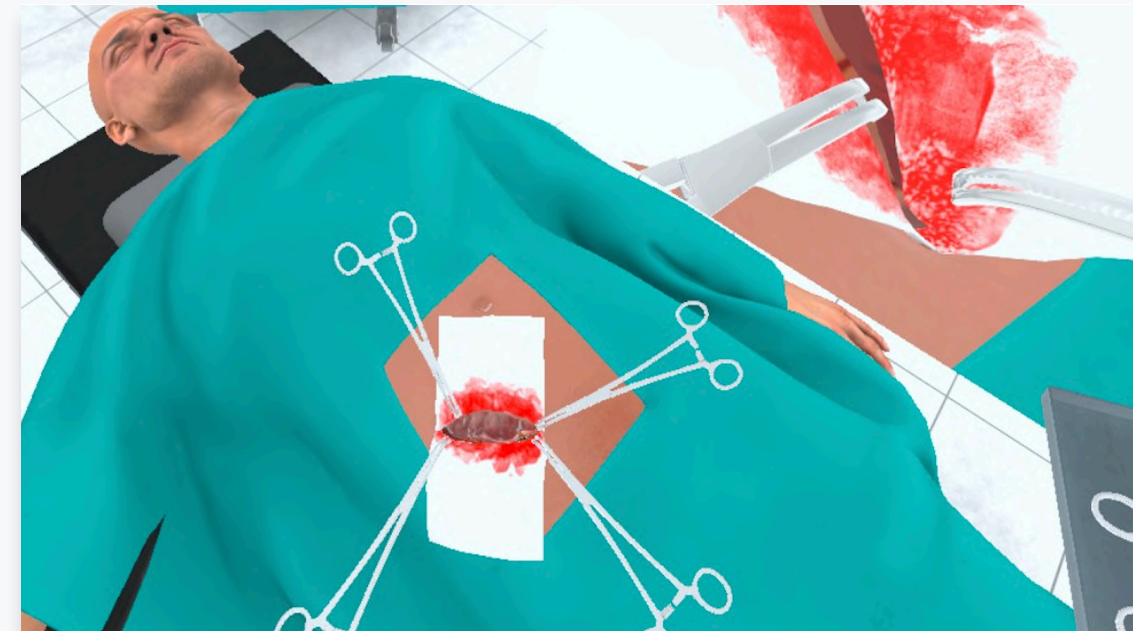
Virtual training application simulator for training in fire safety.

🚗 Defensive driving (VR and 3D)



The simulator immerses the user into a range of road situations and allows them to form habits and control their behaviour according to the key defensive driving rules, detect threats and acquire safe driving style in highly realistic conditions.

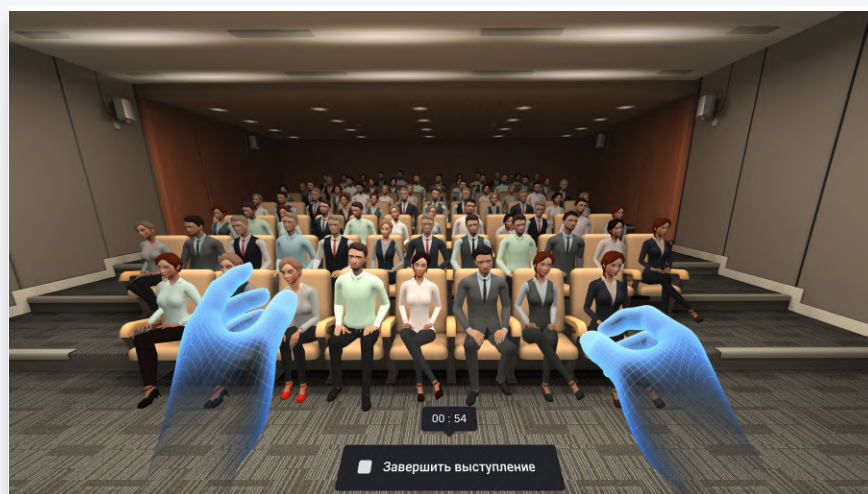
🩺 Medical simulators (VR)



A wide range of simulator complexes for conducting surgeries, providing emergency healthcare and medical examinations, and improving communication skills of personnel.



Communication simulators



Public speaking

Public speech virtual reality simulator with speech and gestures analysis system.



Conducting meetings

Immersive VR simulator based on Regular Management Practice methodology.



Feedback

This simulator's purpose is to use a feedback algorithm in a realistic conversation model.



Digital robotics workshop

A range of interactive materials for conducting lessons and practical workshops in digital form, accounting for available equipment.

Сможет ли робот ехать, правильно держа траекторию, если датчики разместить сзади?

ГЛАВА 11



Алгоритм

Пауза Алгоритм Робот Сбросить Завершить

Какие физические части робота дают нам обратную связь?

Датчики



Начало

Правильно ли держит траекторию?

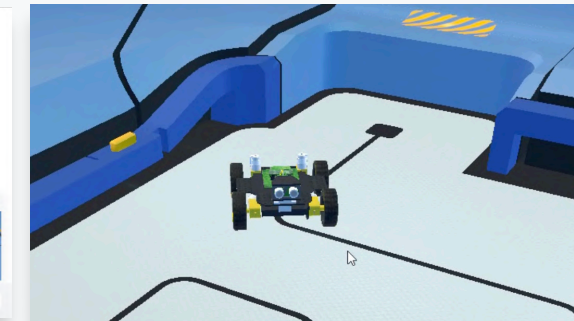
Да Нет

Движение вперед

Восстанови карту

Робот

Сбросить Завершить



Didn't find the right solution for your purposes? We can:

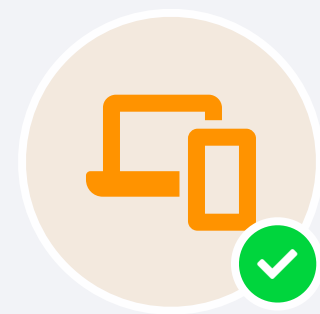
Develop an individual project for you!

- ✓ Analyze your goals and challenges, and gather requirements
- ✓ Determine the optimum format and technology
- ✓ Go through the available scenarios
- ✓ Develop and integrate the solution
- ✓ Provide methodical materials and necessary support



Equipment

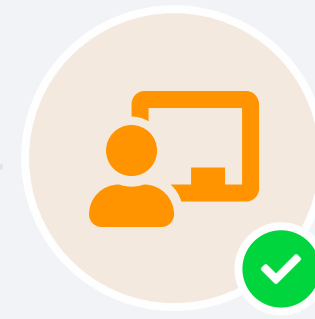
Along with our content management and product range, Modum Lab is ready to support you in procuring the necessary equipment for launching and running the interactive materials.



PCs and laptops for
mobile classrooms







VR headsets



Interactive
panels

You'll receive

-  A range of VR and 3D simulators for personnel education and training
-  Central access, and the ability to manage and upgrade all simulators
-  Automated assigning of simulators to various user groups within the corporate LMS system
-  Uniform integration system for all simulators irrespective of vendor



Modum Lab is a technological education company.

Our digital solutions help cultivate professional skills.

15+

years in the IT market

250+

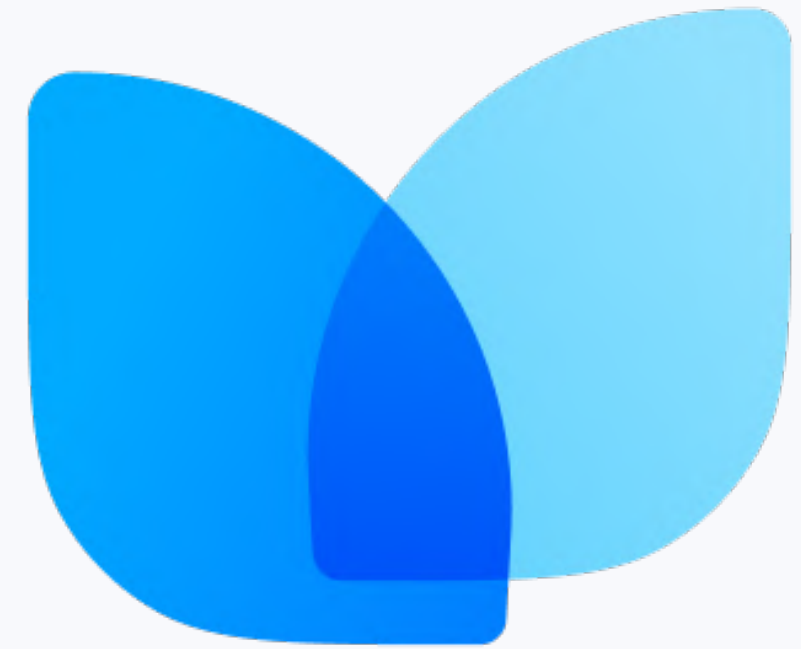
projects implemented

8

years in VR/AR

60

experts



modum lab

Learn more about our solutions

Contact us via email or our site form:

@ hello@modumlab.com

📄 modumlab.com/industry

