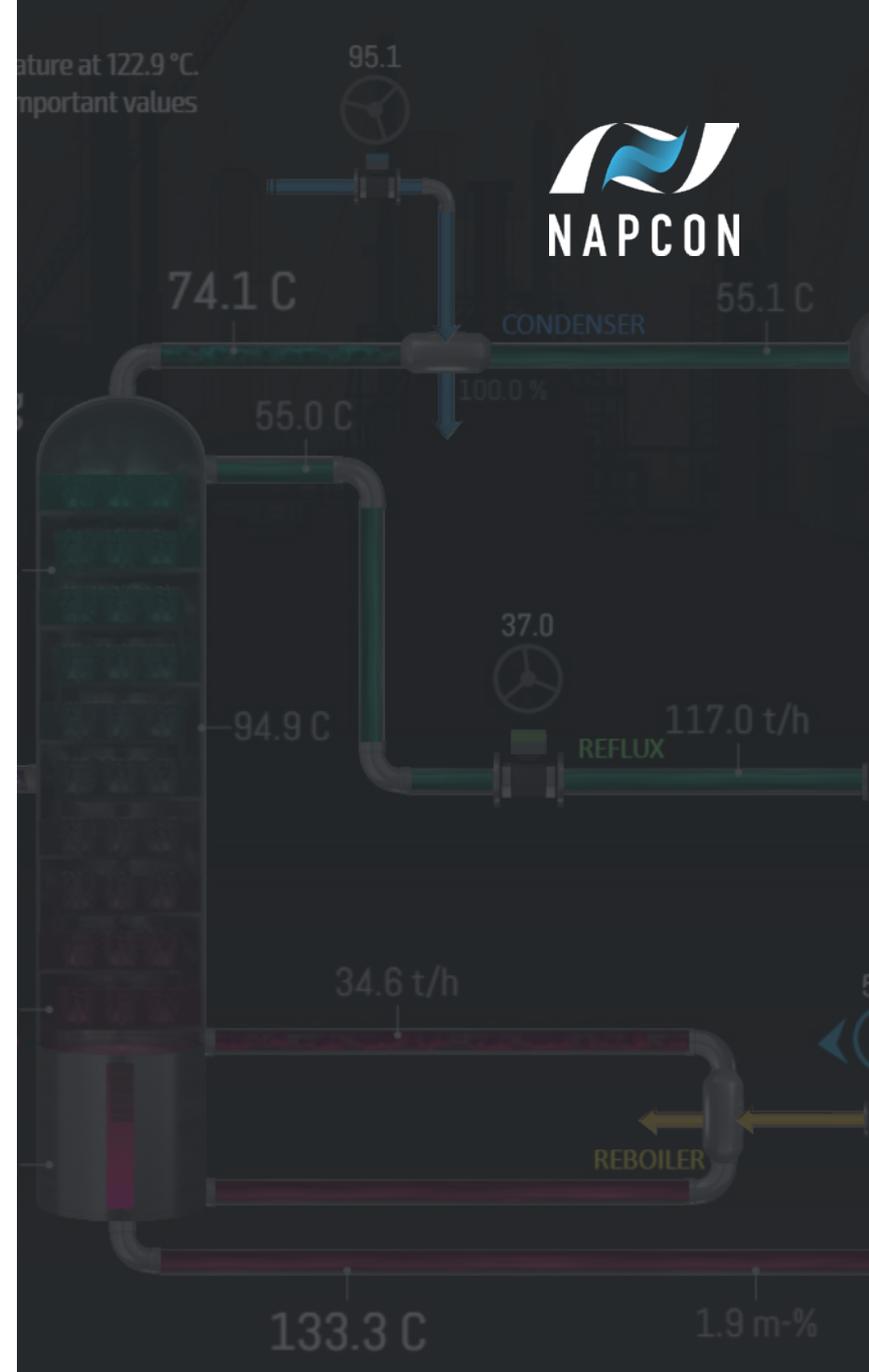


# NAPCON GAMES

## DISTILLER

NAPCON Games Distiller, the first game in NAPCON Training Game Portfolio is a modern extension to traditional classroom operator training. With NAPCON Games Distiller, your operators are able to learn new or enhance their existing skills in industrial distillation



# STEP UP YOUR GAME WITH NAPCON GAMES

NAPCON Games Distiller is a process simulation based solution for learning the fundamentals of Distillation principles, phenomena and control.



## NAPCON GAMES MAIN BENEFITS

### COST- EFFICIENCY

NAPCON Games are cost-efficient tools for complementing other training methods, such as specific theoretical lectures.

### FAST LEARNING

NAPCON Games are an extremely efficient method both for onboarding newcomers and for strengthening the skills of more seasoned experts.

### REALISTIC

NAPCON Games improve employees' real-world skills, as the games are based on authentic phenomena.

### INDEPENDENT LEARNING

NAPCON Games allow independent learning, which makes it possible to utilize stand-by time during work shifts.

### FUN

Compared to traditional classroom training, gamification makes learning much more exciting.

## NAPCON GAMES OFFERING

### GENERIC TRAINING GAMES

A portfolio of training games for learning process industry equipment and phenomena

### CUSTOMIZED TRAINING GAMES

Training games tailored to your process and educational needs



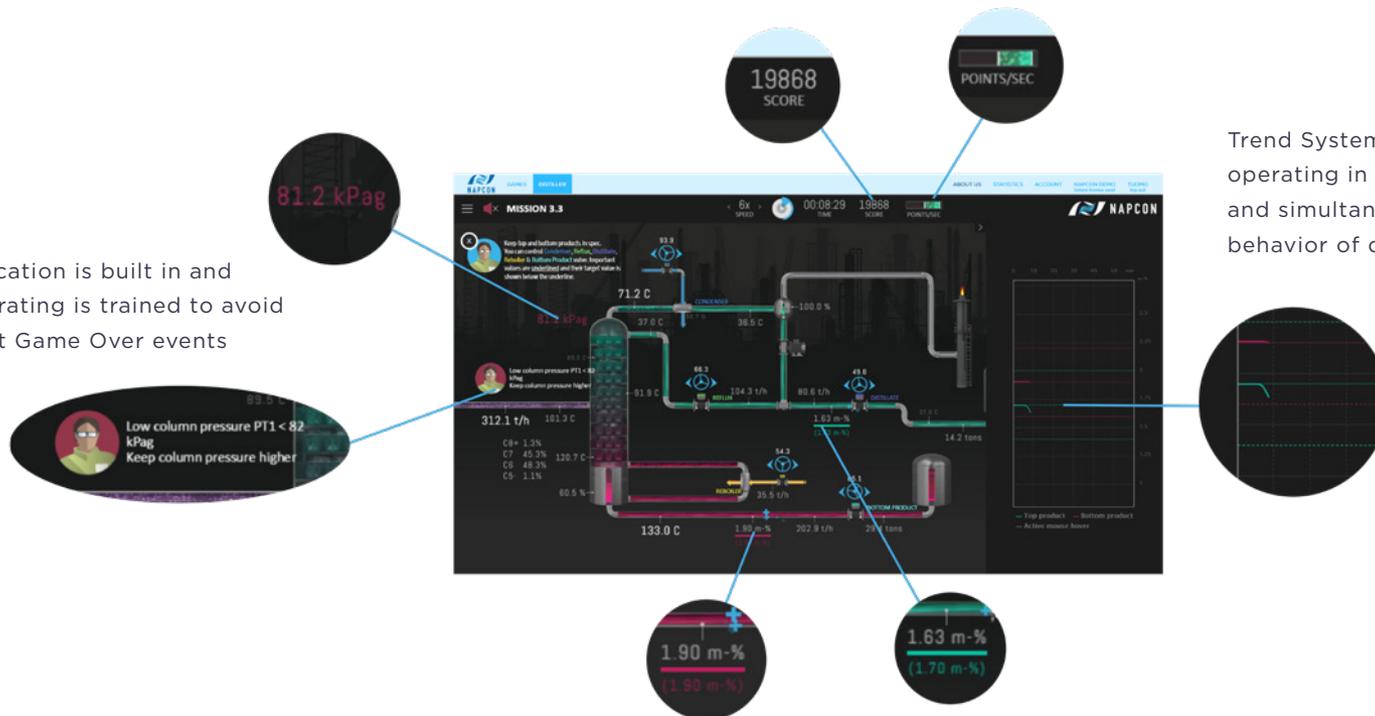
## NAPCON GAMES DISTILLER

Features Micro-learning with instant feedback making the learning fun and effective

Score display and Score meter give overview of current performance in real-time

Safety education is built in and unsafe operating is trained to avoid with instant Game Over events

Trend System visualizes the player's operating in comparison to target values and simultaneously teaches the dynamic behavior of different process phenomena

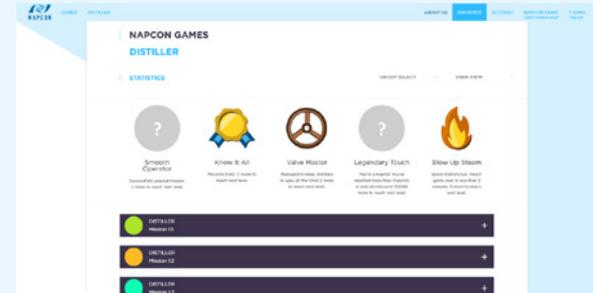


Over the increasingly difficult missions the demand level progressively gets harder. Plus and minus sign animations indicate the current score accumulation

## NAPCON GAMES DISTILLER MAIN FEATURES

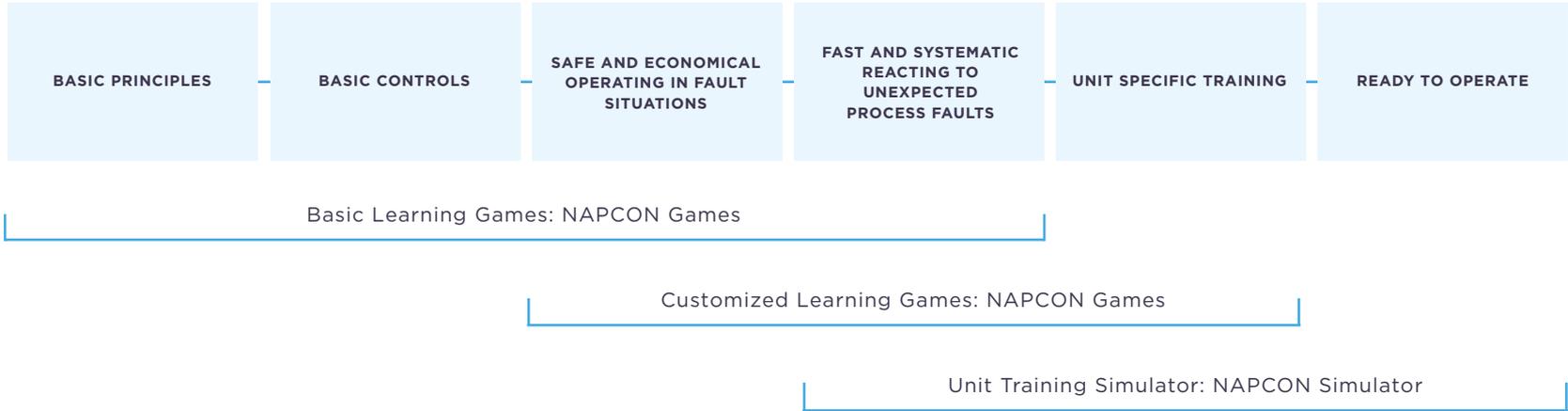
- **Goal directed missions** to complete and master
- **Gradually increasing difficulty** ensures a smooth learning curve
- **Statistics** show the operators' overall skill levels and progress of learning
- **Achievements** motivate the player to play Distiller week after week.
- **Realistic Process Simulation** with ProsDS software\* by NAPCON

\*NAPCON ProsDS is dynamic simulator for process and automation control system modeling and simulation. It is the engine running at the core of NAPCON Distiller. Process is modelled using first principles physical-chemical models, extensive chemical components and properties library and rigorous calculations.



MISSION	LEARNING OUTCOMES
Introduction (Missions 1.1 - 1.4)	<ul style="list-style-type: none"> <li>• Introduction to the distillation process and the game</li> <li>• Effects of individual controls to process conditions</li> </ul>
Intermediate (Missions 2.1 - 2.5)	<ul style="list-style-type: none"> <li>• Learn to use several controls together (multitasking)</li> <li>• Learn the dynamic and multiplicative effects of the controls</li> </ul>
Advanced (Missions 3.1 - 3.6)	<ul style="list-style-type: none"> <li>• Learn to control the distillation process with correct control strategies in several typical fault scenarios:               <ul style="list-style-type: none"> <li>• Feed volume changes</li> <li>• Feed temperature changes</li> <li>• Product specification changes</li> <li>• Feed composition changes</li> </ul> </li> </ul>
Special (Missions 4.1 - 4.2)	<ul style="list-style-type: none"> <li>• Learn to act systematically in unexpected and stressful fault situations</li> <li>• Learn to apply control strategies spontaneously</li> </ul>

**OPERATOR LEARNING PATH WITH NAPCON TRAINING SOLUTIONS**



**TRADITIONAL LEARNING PATH**



## LEARNING WITH NAPCON GAMES DISTILLER

Distiller is a tool for learning the basic distillation control and dynamics involved into distillation system before moving into unit specific training. By filling the gap between theory and unit specific training it allows the player to learn the fundamental principles in a gamified learning environment before moving to work with complex real life process.

Example learning path of Distillation with NAPCON Games Distiller:



### TRADITIONAL METHODS

Theory



### NAPCON GAMES DISTILLER

Operating Principles



### NAPCON SIMULATOR & OPERATING ROOM TRAINING

Unit Specific Operating

## CUSTOMIZED NAPCON GAMES

- Existing Generic Games modified to fit your process and training needs
- Completely customized training game solutions



### DESIGN

Our experts gather your training needs and visions and synthesize a game concept



### PROTO

Game proto demonstrates the key features of the concept works as a milestone to adjust the development direction



### COMPLETE GAME

A complete and tested game customized to your training needs

## NAPCON PRODUCTS



### UNDERSTAND

NAPCON Understand solutions will turn the data provided by your plant into relevant information that help optimize your company's production.

[NAPCON Informer](#)  
[NAPCON Analytics](#)



### IMPROVE

NAPCON Improve solutions will bring out the maximum potential of your operations and help you ensure that your investments meet your strategic goals.

[NAPCON Controller](#)  
[NAPCON Optimizer](#)



### TRAIN

NAPCON Train solutions will bring the real life plant into the virtual world, making training operators and testing the limits of your plant safe and exciting.

[NAPCON Simulator](#)  
[NAPCON Games](#)



### DECIDE

NAPCON Decision support enables you to make the right decisions, even in complex conditions.

[NAPCON Energy Performance](#)  
[NAPCON Flow Dynamics](#)  
[NAPCON Business Optimizer](#)

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