

NESTE EQUIPS ITS OPERATORS WITH KNOWLEDGE AND SKILLS AHEAD OF THE SINGAPORE EXPANSION PROJECT START UP WITH NAPCON TRAIN SOLUTIONS

Neste is expanding its renewable products production capacity in Singapore and the new units are set to start by early 2023. The future operators have started their training two years in advance with NAPCON Train solutions. Their extensive training will enable a safe start up, since the operators will have familiarised themselves with the new facilities through the NAPCON tools.

The operators' learning path consists of the basics of the chemical phenomena and a deep dive into the specifics of the site under construction. The basics are trained with NAPCON Games combined with theoretical e-learning content. This allows the students to grasp one concept at a time at their own pace, while allowing for endless repetitions of the dynamics of a single distillation column, for example.

CLIENT

- Neste Singapore

DELIVERED PRODUCTS AND SERVICES

- NAPCON Simulator
- NAPCON Games
- E-learning content
- Hardware and platform to run the Simulator

After the basics, the NAPCON Simulator will deepen the operators' skills into the plant they will be operating. The Neste Singapore expansion project simulator holds a trainer station for each of the panel operators, replicas of the panel operator stations and the needed hardware to run the training scenarios.

In NAPCON Simulator the underlying process and the automation system is modelled using high-fidelity dynamic models to create a life-like operating experience. The trainers have full control over the simulator, for example creating faults for troubleshooting. The simulation can be paused and fast forwarded at any time to allow for teaching moments and more time efficient learning of the slow dynamics.

Training the operators on a simulator has a major impact on the wellbeing of the workforce. Having risk free practise time with the NAPCON Simulator has taken away stress from the operators on the upcoming start up.

BENEFITS FOR NESTE:

- Highly trained staff
- Risk free rehearsal for real operation
- Improved confidence to operate a real plant
- Ability to run the plant smoother and safer
- Unlimited practises with complex controls of the process

NAPCON DELIVERY PROJECT HIGHLIGHTS:

- Project delivered during the COVID19 pandemic in changing conditions with remote FAT and installations
- NAPCON solutions built for a production expansion under construction with new operators to be trained
- Early start for the training programme, well before the plant commissioning
- Basic skills trained with NAPCON Games combined with theoretical e-learning content
- NAPCON Simulator focuses the operators' skills into the plant they will be operating
- A separate trainer station for each of the panel operators