

Training

From theory to (virtual) reality -
Teaching the next generation
in the building sector



GF Piping Systems supports the
IFSB institute in Luxembourg with
modern training sessions

Providing safety and reliability in the building sector with VR training

The Institut de Formation Sectoriel du Bâtiment (IFSB) institute in Luxembourg is a joint project that was set up by stakeholders from the building and public works sectors. Its goal is to further enhance the skills of people who work in these fields. As a partner of IFSB, GF Piping Systems contributes training modules at the institute that bring participants up to speed with the Swiss company's evolving portfolio, including theoretical and practical elements as well as innovative Virtual Reality (VR) training.

Project background

The IFSB training center in Bettembourg, Luxembourg, welcomes thousands of trainees every year to bring them up to speed with the rapidly changing building sector. Here, participants can learn about new building materials and construction techniques – but not only in the classroom. The 5,000 m² facility allows them to practice operating construction machinery on a unique training ground, including a solar station that features a range of photovoltaic equipment such as heat pumps and ventilation systems, and a didactic building allows participants to practice various installations in a realistic setting. In order to make these training sessions possible, the IFSB institute relies on partners.

Selected technical solution

Swiss flow solutions provider GF Piping Systems has a long history in the field of education and operates over 30 training centers around the world that operate on a daily basis. At IFSB, experienced GF certified instructors teach customers and installers essential knowledge, particularly in the field of butt welding and electrofusion for pipes and piping components in the utility sector. In addition to proven theoretical and practical sessions that cover two out of the five days, GF Piping Systems also offers innovative VR modules. Trainees are able to run through common real-life scenarios and practice them at their own pace and with different levels of support in the form of text, visuals, or icons.

Achieved improvement

After the participants at IFSB have completed the theoretical portion of their training, GF Piping Systems offers a practical welding course in which they can weld components such as couplers, elbow pieces or T-pieces in dimensions from d100 to d32. By consciously making mistakes, participants are encouraged to learn about the consequences of faulty installations. The VR portion of the training then allows them to repeat installations virtually with VR glasses until they are ready to work in the field. For IFSB, the VR courses are especially valuable as they help increase work safety and reduce the risk of pipe leaks in the utility sector. At the same time, innovative technologies such as VR help to attract the next generation.



The use of Virtual reality improves the learning experience and reduces the waste of materials.



Hands-on training is required, putting into practice all that was taught in the classroom.

Customer benefits

- **GF Piping Systems has many years of educational experience thanks to over 30 training centers around the world**
- **Continuous learning in the building sector increases the safety and reliability of pipe installations**
- **Innovative technologies such as VR increase the quality of trainings and can be adapted to the individual needs of trainees**

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