

CASE STUDY

A-Gas in Singapore Partners With Temasek Polytechnic to Build Refrigerant Recovery Expertise



BACKGROUND

About Temasek Polytechnic

Established in 1990, Temasek Polytechnic is a leading higher education provider in Singapore. Its focus is on giving its students lifelong skills and digital knowledge across a vast range of subjects and industries. It aims to ensure its attendees enter the world of work with confidence, and it is dedicated to benefitting global communities through the courses and skills it promotes.

About A-Gas

A-Gas is a world leader in the supply and lifecycle management of refrigerants and associated products and services. Through our first-class recovery, reclamation, and repurposing processes, we capture refrigerants and fire protection gases for future re-use or safe destruction, preventing harmful release into the atmosphere.

For over 30 years, A-Gas has supported our clients and partners on their environmental journey by supplying lower global warming gases and actively increasing the circularity of the industries we serve, building a sustainable future.

CHALLENGE

Temasek Polytechnic runs a two-day course titled Refrigerant Handling for Chillers. The course covers the standard operating procedure when it comes to managing refrigerants, and emphasises the importance of using responsible refrigerant recovery measures to reduce the risk of gas with a high global warming potential (GWP) being released into the atmosphere. It is a mixture of practical, hands-on exercises and assessments. Three years after completing the two-day course, students must complete a one-day refresher session, which is mandated by the National Environment Agency (NEA) in Singapore.

AT A GLANCE

Challenges

- Bridge industry knowledge gaps in safe and responsible refrigerant handling methods.
- Ensuring Heating, Ventilation, Air Conditioning and Refrigeration (HVAC-R) professionals are up-to-date with evolving industry regulations.
- Providing students with a multi-faceted, hands-on learning experience.

Benefits

- Successful and skilful delivery of Temasek Polytechnic's one-day Refrigerant Handling for Chillers refresher course.
- Equipping certified chiller technicians with enhanced skills in safe refrigerant recovery to prevent the release of gas into the atmosphere.
- Refreshing fellow industry professionals about best-practice methods and the value of embracing circular economy principles.



"We are very pleased to work with an institution like Temasek Polytechnic. It shows the important role education plays in our industry, and unites professionals behind environmentally conscious practices that will help reduce refrigerant emissions".

Irvine Chen

Product Sales Manager, A-Gas in Singapore

The HVAC-R industry is constantly looking for ways to address the gap in knowledge about handling refrigerants, especially those with a high GWP. As a forward-thinking university, Temasek Polytechnic is keen to work with experts to educate its students.

SOLUTION

In collaboration with Temasek Polytechnic's instructors, A-Gas team members are conducting the one-day Refrigerant Handling for Chillers refresher course.

The NEA requires all certified industry professionals to take the refresher course every three years so that they can stay up-to-date with best-practice methods for refrigerant recovery, system installation and maintenance techniques.

The course also gives them knowledge about regulatory changes, conducts interactive training and explores essential safety practices through case studies. Upon passing the session's theory and practical assessments they achieve a Certificate of Accomplishment, helping them showcase their skills as an industry professional.



RESULTS

The successful and ongoing delivery of this course is a promising and exciting development for the industry. Professionals leave the course with great skills and a strong understanding of how responsible refrigerant management can help to build a more environmentally conscious future.

CONCLUSION

Lifecycle Refrigerant Management (LRM) has a vital role to play in the future of the refrigerant industry. Recovering, reclaiming and repurposing used gas instead of releasing it into the atmosphere helps to reduce greenhouse gas (GHG) emissions and increases the product's circularity.

A-Gas is pleased to be supporting customers in embracing circular economy principles, and it looks forward to taking part in more refresher courses for Temasek Polytechnic in the near future.

A-Gas' partnership with Temasek Polytechnic proves how education and industry collaboration can play an important role in minimising emissions from the HVAC-R industry.