

## Global Partnership for Improving the Food Cold Chain in the Philippines

<b>Activity</b>	Workshop on Good Practices in Refrigeration and Safe Handling of Flammable Refrigerants
<b>Date/Time</b>	28-29 September 2022
<b>Venue</b>	CCI-Hub Building, TESDA, Taguig
<b>Participants</b>	<p>Day 1 - Twenty-five (25) participants from academe and industry (Three participants are competitors of the World Skills Competition)</p> <p>Day 2 - Nine (9) participants from industry and World Skills competitors</p>
<b>Topic/Agenda</b>	Highlights
Day 1	<ul style="list-style-type: none"> <li>• Pre-test was given to the participants to check the label of their knowledge in the latest trends in refrigeration</li> <li>• Topics presented <ul style="list-style-type: none"> <li>○ Refrigerants and Global Environmental Considerations</li> <li>○ Refrigerants Safety Considerations and Applications</li> <li>○ RAC Cycle and Parameters</li> <li>○ Tubing and Brazing Skills</li> <li>○ Do's and Don't's in Refrigeration</li> <li>○ Servicing RAC Equipment with Flammable Refrigerants</li> </ul> </li> <li>• Post test was given at the end of the session</li> </ul>
Day 2	<ul style="list-style-type: none"> <li>• Nine participants from industry and World Skills competitors assembled a simple RAC simulator and charged with R290</li> <li>• Three simulators were produced</li> <li>• The participants produced the evaporator, condenser and connected each component to a filter drier, capillary tube and compressor.</li> <li>• Accessories such as condenser fan, high pressure and low-pressure switch were installed to ensure proper condensation and safety in case leaks occur</li> <li>• The unit was pressurized with nitrogen, then evacuated and charged with seventy-five (75) grams of R-290.</li> <li>• The unit was leak tested by using combustible leak detector, tested and parameters such as sub cooling, superheat, current, temperature and pressure were taken.</li> </ul>

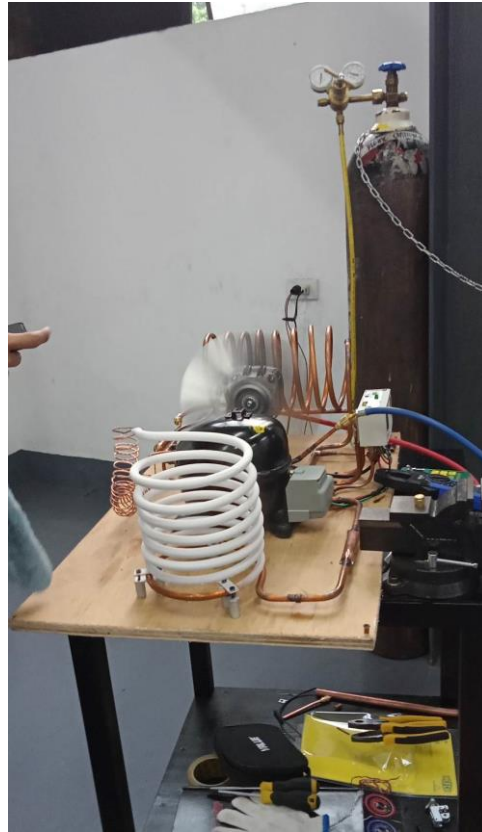
## PHOTO DOCUMENTATION



The participants fabricating a simple R290 simulator



The participants are collaborating with each other on the operation of the fabricated R290 units



Participants from industry putting up some finishing touches on their fabricated units. The unit runs and after charging with 75 grams of R 290



TESDA Director General Danilo Cruz together with his DDGs and Directors visited the training room and observed the on-going training on Good Practices and safe Handling of Flammable Refrigerants. The FG was so impressed with the outputs of the participants.