ESTET Learning Block	Water Management		
Service Learning Project Title	How to reach sustainable water management?	SLP Code	
Type of resource	Service Learning Project (SLP)	Type of learning	Active learning/Learning by doing
Duration of Activity (in minutes)	90 min	Learning Outcome	- Learners collect and analyse data from hotel water use statements, estimated water loss due to leaks, staff, and facility maps. - Learners evaluate findings and make recommendations for actions to reduce hotel water use. - Use communications skills to present findings and recommendations to the community and engage them in taking action to conserve water - Learners will research water efficiency technologies and methods (including behavioural changes) to develop and present action plans to a relevant audience.
Aim of Service Learning Project?	This service learning project aims to help VET students to better understand what activities and behaviours contribute to water loss and poor water management. It will demonstrate what changes could be enacted to perform a sustainable water management plan in their daily life.. The outcome should prove to provide the local community with a better understanding about how they can take action to conserve water.		
Introduction	For anyone working in the hospitality industry, whether you work for an asset ownership group, a hotel management chain, or are a member of numerous on site teams and departments; water plays an important role in your work. However, the important role that water plays in our daily lives is often underestimated and overlooked. In the hotel industry, water plays a pivotal role such as; ice and steam used for cooling and heating, and also in industrial processes such as cooking and washing. From guest rooms to large resorts, across the world water plays a central role in both the hotel and resort industry; as well as the hospitality business model.		
Challenge	Your challenge is try to understand how to create an efficient water management plan, taking into consideration key factors:		

	-The reality of water usage in the hotel industry is that it is used in many areas which can result in extreme water consumption. There are different reasons that explain this difference in the consumption: garden irrigation in hotels, swimming pools and other water related facilities, daily room cleaning and laundry, intensive kitchen activities and a behavioural aspect linked to pleasure such as taking baths or spending more time under shower. - Another significant factor in the challenge of hospitality water management is that guests tend to use more water when staying at a hotel than when they are at home. - Water consumption per capita may also vary according to the type of tourist establishment (for example the minor consumption in campsites compared to villas with gardens and swimming pools).
Assignment	In this service learning project, learners will collaborate in teams and with community partners to: - Collect data from existing sources such as past water bills and hotel facility maps - Measure hotel water use (indoor/outdoor) and make "field" observations by performing the 7-Step Water Audit - Analyse data, formulate problem statements, and make recommendations for action plans to improve water efficiency - Create an extended abstract or poster for the project - Present the project to an authentic audience of students, teachers, water supply entities or administrators and other community partners - Make real-world changes to conserve water The 7-steps can be performed separately or as a whole. Following is a brief summary of each lab: Step 1: Brainstorm on the ways the hotel uses water and map locations of indoor water use. Step 2: Log data and create graphs from water bills. Step 3: Log data and create graphs after reading the water meter. Step 4: Measure the rate of flow from fixtures and leaks. Step 5: Survey other students and staff on water use habits. Step 6: Audit the hotel's irrigation system. Step 7: Report your findings and make recommendations to the public.