

UNIVERSITY OF JOHANNESBURG

Process, Energy and  
Environmental Technology  
Station (UJ PEETS)

# ENVIRONMENT

Waste Optimisation  
Air Quality Management  
Environmental Efficiency



## Short Learning Programme (SLP)

### eWaste Management in the Circular Green Economy

#### ABOUT THE PROGRAMME

Electrical and electronic equipment (EEE) pertains to a wide range of products that are either dependent on an electrical power supply or battery to operate. Once EEE has reached the end of its useful life (or has been abandoned due to becoming obsolete as a result of technological advancements), it is often discarded without the intent for reuse. It is at this point that EEE becomes e-waste, also known as "Waste Electrical and Electronic Equipment" (WEEE). eWaste is the fastest-growing waste stream globally. The e-waste stream in South Africa grows at a rate that is three times faster than that of solid waste.

E-waste streams from developed countries are fed into the e-waste streams in Africa, where African countries often lack the necessary and sufficient infrastructure as well as legislative enforcement to handle the e-waste, resulting in adverse consequences on human health and environmental degradation.

This SLP will help develop the e-waste recycling sector in South Africa by providing students with the necessary skills and knowledge to repair and refurbish e-waste (in particular, small household appliances) and recycling of e-waste. Repair, refurbishment, and recycling will be linked to the Circular Green Economy principles supported by sound e-waste handling practices, decreasing the negative impact on human health and environment, while simultaneously helping drive economic growth in South Africa (if upon completing the course, the student pursues a career in the e-waste recycling sector by either joining a pre-existing recycling facility or starting their own).

#### WHO SHOULD ATTEND?

Unemployed TVET Graduates, unemployed individuals, any individual interested in entering the e-waste sector in South Africa to build up the e-waste repair, refurbishment and sound recycling practices to drive the circular green economy.

#### BENEFITS OF THE PROGRAMME

Students who successfully complete the programme will gain an understanding of:

- The fundamentals of the circular green economy;
- The current state of e-waste from a global and national perspective;
- The importance of safety and Personal Protective Equipment (PPE) when working with e-waste;
- The basic concepts of electricity;
- Fault finding in electric circuits;
- The use of basic tools to repair, refurbish and recycling e-waste;
- To diagnose and understand faults to conduct basic repair on small household appliances.

**COST:** R17 050.00

For further enquiries send an email to [peetstraining@uj.ac.za](mailto:peetstraining@uj.ac.za)

