

ECOWAS Centre for Renewable Energy & Energy Efficiency



ECOWAS Certification of Sustainable Energy Skills (ECSES) Scheme

INTRODUCTION

In fulfilment of its mandates, the ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE) with the support of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), International Renewable Energy Agency (IRENA) and other partners has established a Regional Certification Scheme (RCS) known as the ECOWAS Certification of Sustainable Energy Skills (ECSES) scheme to promote professional competency and address the quality assurance gaps that exist along the renewable energy (RE) and energy efficiency (EE) value-chain.

The rationale behind this Action is that for successful RE and EE market and projects, there is a need for quality assurance at various levels. This includes quality assurance of equipment e.g. through the establishment and enforcement of product standards. However, high-quality products will only provide the desired services if RE and EE systems are designed, installed and maintained by highly qualified individuals. The certification of skills is considered essential because certification gives the reassurance that professionals have the competencies and capacities required to complete a job safely and effectively. More specifically, certification is a way to promote the quality and safety of systems.

The ECSES scheme is based on a Job-Task-Analysis (JTA) that was developed by all ECOWAS member states and with inputs from stakeholders and industry experts. ECREEE also aligns all the structures and procedures of the certification system to the requirements of ISO/IEC 17024:2012 “conformity assessment-General requirements for bodies performing certification of persons”. This will provide the possibility for sustainable energy professionals to obtain credentials that are recognized internationally and regionally. The ECSES scheme’s credentials positively impact career by giving:

THE CANDIDATE

- training and certification that is acknowledged and recognised in all ECOWAS countries;
- enhanced skills, reputation, credibility, and consumer confidence;
- mobility to other ECOWAS countries, the credentials provides access to regional platform, “passport” to national and regional sustainable energy projects, employability, professional competitive advantage and job market in the ECOWAS region;

THE INDUSTRY

- availability of competent and efficient workforce (regular training through recertification that forces the practitioner to stay current learn new skills, and network with peers);
- increased credibility and confidence to the clean technology by the potential investors (better system performance and reduced risks: Investors know the importance of competency);
- satisfied customers (efficient installations, less technical failures, lower operational cost).

This scheme is currently covering only technicians/professionals of off-grid solar PV systems, but will gradually be extended to other clean technology professionals. The regional certification scheme is designed to test the competencies of candidates. Candidates who will demonstrate the requisite skills, abilities, and knowledge typically required in installing and maintaining off-grid solar PV systems in this competency-based examination will be awarded the credentials of the Regional Certification Body (RCB). The paramount process for getting certified is illustrated in the figure below.



APPLICATION

Eligibility requirement of applicants are met (experienced or inexperienced qualifications)



EXAMINATION

Participate in a competency-based exam (practical and written) at the ECSES examination centres



CERTIFICATION

Successful candidates that meet the pass mark are awarded ECSES credentials

The stages of the competency-based examination are practical and written as illustrated in figure below. An applicant can only be certified after passing the written and practical examination. The examinations are designed to assess the competencies of the candidates based on the JTA.



TARGETED COMPETENCIES

List of competencies covered by the ECSES Scheme for off-grid solar PV technicians/professionals:

- Working Safely with Photovoltaic Systems
- Understanding Solar Energy and PV Systems Basics
- Understanding PV System Design
- Installing Mechanical and Electrical PV Components
- Installing Cables, Connectors and Protective Devices
- Completing System Installation, Testing and Commissioning
- Conducting Maintenance and Troubleshooting Activities

ELIGIBILITY REQUIREMENT

In brief, it requires that an applicant must be at least 18 years of age:

- with at least two (2) years of practice as a solar technician; or
- with at least two (2) years of practice as an electrician; or
- Applicants holding Diploma, Bachelor, Master degree and beyond in fields of engineering, or architecture are also eligible for programme.
- NB: It is recommended that all applicants review sample examinations that can be found here

Written Examination: <http://www.ecreee.org/certification>

Practical Examination: <https://youtu.be/xEvPEdBkKYM>

DATES AND PLACE OF EXAMINATION

Deadline for submission of application: 24 August 2019

Date of written examination: 26 August 2019 at Asteven Renewable Energy Academy (ASREA), Lagos, Nigeria

Date of the practical exam: 27-30 August 2019 at Asteven Renewable Energy Academy (ASREA), Lagos, Nigeria

APPLICATION

- Please fill the regional certification application form and submit online at [Application Form](#) or
- Download this [Form](#), fill, email it to certification@ecreee.org and copy asrea@astevengroup.com or submit it at ASREA (Telephone: 07013155301, 08033240011).

NB: The registration fee is 80,000 Niara.

SCHOLARSHIP FOR WOMEN

Women's Technical Exchange Program (WTEP) Scholarship: In order to facilitate gender balance, ECREEE is encouraging women to apply to its certification program. Support will be provided to a selected number of female applicants found to be eligible for scholarship support. This support will be provided through ECREEE's initiative on Women's Technical Exchange Program, established to facilitate learning and knowledge sharing between women groups and associations involved in energy within and outside the region. Click [here](#) for more information on WTEP.

Programme de Bourse pour les Femmes Installateurs (PBFi): In the framework of the 'Amélioration de la Gouvernance du Secteur des Energies Renouvelables et de l'Efficacité Energétique' (AGoSEREE-AO), cofinanced by the Union European and BMZ, GIZ and ECREEE are also encouraging Women's participation through PBFi scholarship opportunity for women to get the train and certified by RCB.

NB: Please you can select WTEP or PBFi scholarship when you are applying for the programme [here](#).

CONTACT

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This project is co-financed by
the European Union



cooperation
germany – ecowas
ZUSAMMENARBEIT DEUTSCHLAND – ECOWAS



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IRENA
International Renewable Energy Agency

