



PLANET – PLan for Agriculture reNewable Energy Training

Table of Contents

1	MODULE DESCRIPTION	. 2
2	OUTLINE	. 2























PLANET – PLan for Agriculture reNewable Energy Training

1 SOLAR photovoltaic Module description

The Solar Photovoltaic training course consists of 6 days of training, both in-class, online and on-field (with a site visit of a operating power plant). The module starts with an introductory chapter which should allow the students to understand the applications of solar energy as well as the roles of all actors involved in a solar plant project. The module continues with a presentation of technical equipment of a power plant and the influence of the local law and regulation on the applications. The students will then learn the basic rules of design of a power plant. Day 4 consists of a site visit where students will discover an operating plant and how the information learned in the previous days are applied on-field. They will also apprehend safety and health regulation as well as the steps of Operations and Maintenance. Day 5 presents the method for evaluation of the economical benefits of a power plant and, finally, Day 6 is a presentation of how to run a power plant through troubleshooting, maintenance and recycling phases. With the knowledge of the course, the student get the ability to review the design of a solar power plant according the present framework to allow a sustainable economical operation of the plant.

2 Outline

Module 2	PLANET Solar photovoltaic training course	Bloom Taxonomy level	Test type
Day1	Entrance Test & Introduction		
LO1	Know the best solar applications for farmers and the influence of the regulation	remembering	
LO2	Know the necessary health, safety, hygiene, and environmental standards and legislation rules in the solar PV sector.	remembering	
LO3	Understand the steps of design of a solar power plant: from the feasibility study to the project supervision.	understanding	Multiple questions
Day2	Renewable energy: Environmental sustainability and market potential		
LO1	Know the Equipment and Implementation of a Solar photovoltaic plant	remembering	





PLANET – PLan for Agriculture reNewable Energy Training

Module 2	PLANET Solar photovoltaic training course	Bloom Taxonomy level	Test type
LO2	Know the Law & Regulation behind of a Solar photovoltaic plant	remembering	Multiple questions
Day 3	Equipment, Law & Regulation and Design		
LO1	Check with Day 2 "Equipment" is understood	remembering	
LO2	Check with Day 2 "Law & Regulation" is understood	remembering	
LO3	Be able to pre-sizing a solar PV plant and choosing the optimal valorization scheme	applying	Practical test
Day 4	General and Specific education on Safety and Health		
LO1	Understand how to run a solar photovoltaic power plant	understanding	Practical test with interview
Day 5	Design & Economy		
LO1	Evaluate the opportunity and the economy of a solar photovoltaic plant	evaluating	Report
LO2	Design a solar PV plant as a group assignment	applying	group assignment
Day 6	Run of a power plant		
LO1	Identify, troubleshoot and report equipment damage and malfunctions; know the major failures of the system and how to react and understand the Compliance with Environmental Legislation	applying	Practical competence test