SolTec

Towards a European qualification for service and maintenance in the solar energy-sector
503219-Leonardo-2009-LLP -2009-2181

General knowledge / skills / competences
e.g. language, personal and social competences, mathematical and technical understanding

I Installation

Competence Unit Assignments	Tasks Sub-Assignments	Knowledge	Skills	Competences	NQF	EQF
Planning						
Analyses of needs and context	- To assess the needs of the users and determine the solar potential of an area					
Planning of the PV-concept according to the needs analyses	- To define the characteristics of the PV-installation according to the user needs and the solar potential of an area - To select the equipment and necessary elements with their specifications					
Legal, formal and technical obligations	- To prepare the documents for the legal authorizations and possible subsidies - To apply grid connec-					

Competence Unit Assignments	Tasks Sub-Assignments	Knowledge	Skills	Competences	NQF	EQF
	tion (if necessary)					
Financial project planning	- To calculate and develop a budget for PV-installation and its different items					
Planning of the execution	- To plan the work stages for the installation - To develop detailed work and time tables for the installation - To plan a monitoring system for the installation process (review)					
Logistics	- To organize and control the procurement and supply of materials according to the work plan)					
Work safety	- To create a health and safety plan for the installation process - To accomplish the safety measures according to the plan - To control the implementation of the health and safety plan					

Competence Unit Assignments	Tasks Sub-Assignments	Knowledge	Skills	Competences	NQF	EQF
Execution						
Preparation of the installation	- To analyze the installation plan and define the installation process - To prepare and organize the installation					
Practical Execution	- To install the system with regard to all safety rules - To commission and operate the test					
Documentation	- To develop the operational and maintenance manual					

II Service and Maintenance

Competence Unit Assignments	Tasks Sub-Assignments	Knowledge	Skills	Competences	NQF	EQF
Maintaining, inspecting, trouble-shooting						
Planning the Maintenance activity	- To identify tools and equipment required for maintaining and trou-ble-shooting - To identify mainte-nance needs on site					
Execution of maintenance	- To implement service procedures - To perform diagnostic procedures and inter-pret results - To identify perfor-mance and safety is-sues and implement corrective measures					
Verification and documen-tation	- To verify and demon-strate complete func-tionality and perfor-mance of system - To document of work process					
Repairing						
Planning of repair activi-ties	- To diagnose the anomalies in the PV-system					
Execution	- To check the malfunc-tions - To repair the anoma-					

Competence Unit Assignments	Tasks Sub-Assignments	Knowledge	Skills	Competences	NQF	EQF
	lies in PV-systems					
Verification and documentation	- To test the repaired PV-system - To document the repair					