

Unit no. 5 Processes, level 3		Knowledge	Skills	Competences
Descriptors defining levels in the European Qualifications Framework (EQF)	Level 3	knowledge of facts, principles, processes and general concepts, in a field of work or study	a range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information	take responsibility for completion of tasks in work or study adapt own behaviour to circumstances in solving problems
	Level 4	factual and theoretical knowledge in broad contexts within a field of work or study	a range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study	exercise self-management within the guidelines of work or study contexts that are usually predictable, but are subject to change supervise the routine work of others, taking some responsibility for the evaluation and improvement of work or study activities
	Level 5	comprehensive, specialised, factual and theoretical knowledge within a field of work or study and an awareness of the boundaries of that knowledge	a comprehensive range of cognitive and practical skills required to develop creative solutions to abstract problems	exercise management and supervision in contexts of work or study activities where there is unpredictable change review and develop performance of self and others

General contents		Knowledge	Skills	Competences
Projects of renewable energy systems	Necessary documentation for project definition	Technical report Specifications. Plans Budget	Students can read and understand the requirements established in the project for the correct assembly of installations of renewable energy systems. They can interpret assembly drawings and basic operation diagrams of systems.	They are able to talk and discuss about processes and techniques for the assembly of the installations from the requirements set forth in the documentation and plans.
	Documents required for establishing security measures for the assembly of renewable energy installations.	Safety Study. Safety and protection measures.	Students can read and understand the requirements set out in the safety study for the assembly of the installation. They are able to take the safety and protection measures set out in the documentation.	They are able to talk about safety and protection measures established in the project documentation. They are able to explain to others how to take basic safety and protection measures provided in the documentation.
Permits and authorizations	Procedures for obtaining permits.	Administrative processes for the assembly and commissioning of renewable energy installations: <ul style="list-style-type: none"> - Administration - Supplying companies 	Students know the necessary administrative procedures for obtaining permits for the installation and commissioning of renewable energy installations.	They are able to determine whether all necessary administrative steps to obtain authorization for the installation and commissioning of facilities have been made.

		<ul style="list-style-type: none"> - Professional agencies and foundations - Approved inspection agencies. 		They are able to claim mistakes in the proceedings before the responsables.
	Documentation related to the permits and authorizations.	Authorizations and documentations.	Students know how to recognize the documentation required by the administration and other institutions for installation and commissioning of facilities.	They are able to determine if all documentation and permits necessary for installation and commissioning of facilities have been obtained, if they are duly filled and if the required signatures and seals are correct.
Maintenance of renewable energy installations	Procedures and documentation related to the maintenance of facilities.	Maintenance contracts.	<p>They know the main features that maintenance contracts for renewable energy installations must include.</p> <p>They recognize the technical requirements resulting from a maintenance contract.</p>	They can talk about the obligations established by a maintenance contract for renewable energy installations
		<p>Maintenance programs:</p> <ul style="list-style-type: none"> - Predictive maintenance - Preventive maintenance - Corrective maintenance <p>Maintenance record book.</p>	<p>Students can recognize the operations and schedule established in a maintenance plan.</p> <p>They can complete the documentation required in the inspections prescribed by a</p>	<p>They can talk about techniques and planned operations to carry out the requirements of a maintenance plan.</p> <p>They are able to teach others which operations are required by a maintenance plan and how to</p>

Partners' information for AIRE units

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			<p>maintenance plan (Maintenance record book). They know roughly analyze the maintenance performed to an installation from the documentation created in previous inspections.</p>	<p>perform basic operations. From the documentation created in a maintenance record book, they can establish if it has been done correctly or not (carrying out all operations and correct frequency)</p>
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