GARDEN CONSERVATION	**Craft Skills for Garden Conservation** - finding, developing, and sharing best practice in garden conservation
Title of the Unit:	**U9 – Ponds and fountains in Historic Gardens** Version no. 1 – 15.10.24
Description:	During this unit, we outline the role of water bodies, fountains and water conduits in historic gardens, their technical background, preservation and maintenance. We explore how climate change effects water supply methods, which can also affect the restoration of fountains and ponds. Many European gardens were influenced by Dutch designs that have water as a key element but have lost the skills to maintain and manage them. Others struggle in this period of climate change with the wide fluctuations of water supply, causing both prolonged period of drought and periods of flooding. This unit gives a theoretical background for the topic Ponds and fountains in Historic Gardens. It gives introductions and technical insight in the development of water features and water management methods in history. It shows different examples on designing with water and water management in the past and in different regions of Europe. The unit offers lectures and practise in different techniques and different tools in - Tracing back old water systems. Reading the landscape and incorporating geological and cultural history of the area. - Methods of maintenance of preserved, renovated and restored fountains and water supply systems. - How these can be applied to heritage garden water bodies and the craft skills and methods associated with it. - How do water bodies improve the microclimate/mitigate climate change? - How can we use older water management methods to solve present day issues? - Maintaining the quality / purity of the water to save animal and plant biodiversity.
EQF Level:	**6.1**

Learning Outcomes			
CSGC U-7	**Code**	**Competence**	
		Knowledge	**Skills**
1.1			

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Introduction to historical water features and water management	**U9 1.1**	Knowledge: The participant • has knowledge of scientific methods and historical developments in water management and can apply these to their work in restoration of historic water features and water management systems.	Skills: The participant • can apply relevant methods in Water Management for investigations in restoration of historic water features and water management systems.
		Competence: The participant • can exchange opinions and experiences with others with a background in the field and thereby contribute to the development of good practise in restoration of water features and water management systems.	
1.2			

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<table>
<tr><td rowspan="2">Management and restoration of historic water features</td><td rowspan="2">U9
1.2</td><td>Knowledge:

The participant
• has knowledge of key topics, theories, issues, processes, tools, and methods within management and restoration of historic water features and water management systems
• knows about research, development work and good examples within restoration of historic water features and water management systems.
• knows about the history of historic water features and water management systems, its traditions, uniqueness, and its place in society in different regions of Europe.
• can apply the knowledge in practical and theoretical problem-solving of management and restoration of historic water features and water management systems.
• can update their knowledge on management and restoration of historic water features and water management systems.</td><td>Skills:

The participant
• can apply professional knowledge on management and restoration of historic water features and water management systems to practical and theoretical issues and explain their choices.
• can reflect on own professional practice in management and restoration of historic water features and water management systems and adjust this under guidance.
• can find, evaluate, and refer to information on management and restoration of historic water features and water management systems, and use this to enlighten an issue in historic gardens.
• can make use of the geology of the area and the layered cultural heritage of water ways to design solutions concerning water management
• can use both historical techniques, such as Venturi effect, ram pumps and puddled clay and modern, sustainable water management techniques such as closed water circuits, drainage basins, computerized hydraulics and modern lining materials.</td></tr>
<tr><td colspan="2">Competence:

The participant
• has insight into professional and ethical issues on restoring historic water features and water management systems.
• can plan and carry out tasks and projects on restoring historic water features and water management systems, both alone and as a participant in a group, and in line with ethical requirements and guidelines.
• can exchange views with others with a background in restoring historic water features and water management systems and participate in discussions about the development of good practice.</td></tr>
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