

ECVET Earth Building	<b>Formwork</b>	<b>Unit F</b>
----------------------	-----------------	---------------

<b>Learning outcomes</b>		<b>Level 5</b>
<b>KNOWLEDGE</b>	<b>SKILLS</b>	
<ul style="list-style-type: none"> <li>- Types of formwork, assembly, safety, storage, providers</li> <li>- Earth building technique and its specific needs in formwork</li> <li>- Selection criteria for formwork choices (cost, strength, weight, size, surface quality, etc.)</li> </ul>	<p><b>Planning</b></p> <ul style="list-style-type: none"> <li>- Establish the profile of specific formwork needed depending on site organisation (storage area, lifting equipment/crane), earth technique, surface quality, etc.</li> <li>- Calculate impacts in time and money</li> <li>- Check safety installation and working methods with the formwork</li> <li>- Choose between buying or renting</li> <li>- Check stresses can be absorbed by the formwork</li> <li>- Adapt the formwork system or plan for specific works</li> <li>- Communicate specific recommendations for use and maintenance</li> <li>- Define the quantity of formwork need depending on plan and program (coursing and rotation of the shutters)</li> <li>- Assess formwork choice related to the quality of construction required</li> </ul> <p><b>Coordination</b></p> <ul style="list-style-type: none"> <li>- Coordinate the team and organise the workforce for the optimum workflow in formwork production, setting and rotation</li> <li>- Adapt the quantity of shutters to the planned work and the real speed of use</li> <li>- Manage block-outs, openings, fixing points</li> <li>- Manage with other professions or trades specific technical installations inside the formwork (electrical &amp; other services, etc.)</li> </ul> <p><b>Controls</b></p> <ul style="list-style-type: none"> <li>- Check if the position and stability are properly controlled</li> <li>- Check the correct application of the site health &amp; safety plan</li> </ul>	
<b>COMPETENCE</b>		<b>Level 5</b>
<ul style="list-style-type: none"> <li>- Create confidence on site and underline the particular issues relating to formwork systems for earth through site inductions and training where necessary</li> <li>- Apply safety rules, specifically related to the rotation and stripping of the formwork</li> <li>- Verify the quality of the formwork is appropriate</li> <li>- Make a preliminary design (dimensions), detect underlying errors in the plans, make changes if necessary and get validation by the engineer</li> </ul>		

ECVET Earth Building	<b>Formwork</b> Rammed earth and Cob	<b>Unit F</b>
----------------------	---	---------------

<b>Criteria and Indicators for the Assessment of Skills</b>		<b>Level 5</b>
Criteria	Indicators	
Planning	<ul style="list-style-type: none"> <li>- The type of formwork is well selected</li> <li>- Procurement of materials is well organised</li> <li>- Earth formwork activities are included in the site health &amp; safety plan</li> </ul>	
Coordination	<ul style="list-style-type: none"> <li>- Equipment storage/maintenance area is well organised</li> <li>- The workers understand the requirements of rammed earth and cob formworks</li> </ul>	
Controls	<ul style="list-style-type: none"> <li>- Formwork position and stability conform to requirements</li> <li>- All technical installations, fixings, services are in place</li> <li>- The formwork is managed safely:               <ul style="list-style-type: none"> <li>○ Personal protection equipment is adapted to risks and is used according to safety instructions</li> <li>○ Equipment is used according to safety instructions.</li> <li>○ All protective safeguards are in place</li> <li>○ Erection of ladders and scaffolding according to regulations</li> </ul> </li> </ul>	

Ensure that standards of work and materials comply with relevant codes of practice and to current standards.