

ECVET Earth Building	<b>Earth building market</b>	<b>Unit E</b>
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<b>Learning outcomes</b>		<b>Level 5</b>
<b>KNOWLEDGE</b>	<b>SKILLS</b>	
<ul style="list-style-type: none"> <li>- How to integrate earth into conventional construction rules and situations</li> <li>- How qualities and performance of earth respond to sustainable and bioclimatic construction principles (socio-economic benefits versus financial costs)</li> <li>- Geology applied to earth construction (soil science, soil reports and geological maps)</li> <li>- Innovation, products and developments related to earth construction</li> <li>- Current earth building standards, rules, regulations</li> <li>- Current pricing and timing related to different earth construction works</li> <li>- Life cycle analysis using already calculated ratios (under ISO14000 series)</li> <li>- Carbon footprint and embodied energy calculation</li> </ul>	<p><b>Planning</b></p> <ul style="list-style-type: none"> <li>- Carry out cost and quality comparisons for options of procurement of material (including material from site)</li> <li>- Estimate the quantities of earthen materials and the volume of hours of work to be performed</li> <li>- Ensure financial reserve against unforeseen events</li> </ul> <p><b>Coordination</b></p> <ul style="list-style-type: none"> <li>- Create confidence on site and emphasize the particular issues relating to earth structures through site inductions and training</li> <li>- Coordinate and control tasks and time of various trades related to earth construction</li> <li>- Adapt the technical, financial and human means and update the cost plan</li> </ul> <p><b>Controls</b></p> <ul style="list-style-type: none"> <li>- Issue regular financial reports</li> <li>- Issue regular quality reports</li> </ul>	
<b>COMPETENCE</b>		
<ul style="list-style-type: none"> <li>- Study the feasibility and the cost of the project considering technical, economic and environmental data related to earth, in order to facilitate the expression of the client's needs</li> <li>- During planning consider the consequences of sourcing earth materials, for program, weather issues, impact on human and material resources, etc.</li> <li>- Consult and choose suppliers and contactors for labour and materials specific to earth (where the scale of earth works allows, level 5 can calculate this, for bigger sites it is the surveyor)</li> <li>- Assess earth building competence of the team and identify training needs</li> <li>- Improve and complete the data base for cost calculation</li> <li>- Apply technological watch about testing and construction procedures for earth building</li> </ul>		

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<b>Criteria and Indicators for the Assessment of Skills</b>		<b>Level 5</b>
<b>Criteria</b>	<b>Indicators</b>	
Planning	- A cost plan is in place, with contingency allocation appropriate to risk of financial change	
Coordination	<ul style="list-style-type: none"> <li>- Variations to the cost plan are managed</li> <li>- Valuations and certificates are issued</li> </ul>	
Controls	- The effects of possible changes on site are anticipated and contingency plans are in place	

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