## Learning outcomes

### Level 5

<table>
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<tr>
<th>KNOWLEDGE</th>
<th>SKILLS</th>
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| - Types of formwork, assembly, safety, storage, providers  
- Earth building technique and its specific needs in formwork  
- Selection criteria for formwork choices (cost, strength, weight, size, surface quality, etc.) | Planning  
- Establish the profile of specific formwork needed depending on site organisation (storage area, lifting equipment/crane), earth technique, surface quality, etc.  
- Calculate impacts in time and money  
- Check safety installation and working methods with the formwork  
- Choose between buying or renting  
- Check stresses can be absorbed by the formwork  
- Adapt the formwork system or plan for specific works  
- Communicate specific recommendations for use and maintenance  
- Define the quantity of formwork need depending on plan and program (coursing and rotation of the shutters)  
- Assess formwork choice related to the quality of construction required |  
|  | Coordination  
- Coordinate the team and organise the workforce for the optimum workflow in formwork production, setting and rotation  
- Adapt the quantity of shutters to the planned work and the real speed of use  
- Manage block-outs, openings, fixing points  
- Manage with other professions or trades specific technical installations inside the formwork (electrical & other services, etc.) |  
|  | Controls  
- Check if the position and stability are properly controlled  
- Check the correct application of the site health & safety plan |  

### COMPETENCE

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| - Create confidence on site and underline the particular issues relating to formwork systems for earth through site inductions and training where necessary  
- Apply safety rules, specifically related to the rotation and stripping of the formwork  
- Verify the quality of the formwork is appropriate  
- Make a preliminary design (dimensions), detect underlying errors in the plans, make changes if necessary and get validation by the engineer |
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<th>Criteria</th>
<th>Indicators</th>
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| **Planning** | - The type of formwork is well selected  
- Procurement of materials is well organised  
- Earth formwork activities are included in the site health & safety plan |
| **Coordination** | - Equipment storage/maintenance area is well organised  
- The workers understand the requirements of rammed earth and cob formworks |
| **Controls** | - Formwork position and stability conform to requirements  
- All technical installations, fixings, services are in place  
- The formwork is managed safely:  
  - Personal protection equipment is adapted to risks and is used according to safety instructions  
  - Equipment is used according to safety instructions  
  - All protective safeguards are in place  
  - Erection of ladders and scaffolding according to regulations |

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