

# Teacher's guide: Dismantling Task

## Theme

- Dismantling
- Cleaning of Bricks
- Types of Mortar
- Combination of Mortar and Bricks
- Reuse

## Recommended Duration in Hours

- 4 hours



## Introduction

This teaching element can only be carried out after completing the practical task: 8. Construction.

The apprentice dismantles the test wall and cleans the bricks. Dismantling allows the apprentice to perform the breakdown of bricks mortared with different types of mortar and experience the difficulty of the cleaning work for various combinations.

A task sheet has been prepared to guide the apprentice in considering essential parameters related to dismantling.

## Preparation

The teacher should ensure there is material for cleaning.

## Learning Objectives

- The apprentice can refer to parameters that make materials suitable for incorporation into constructions designed for separation.
- The apprentice can explain the significance of the type of mortar for the recyclability of bricks.
- The apprentice can determine whether mortar types are suitable for later dismantling and reuse of bricks.
- The apprentice can choose mortar types that provide good conditions for later dismantling and reuse.
- The apprentice can explain characteristics of the dismantling of brick structures depending on the type of mortar used in the construction.
- The apprentice can determine whether bricks can be cleaned for reuse.
- The apprentice can perform cleaning of bricks so that they can be reused.

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## Content and Purpose

The apprentice dismantles a test wall and considers the difficulty of separating and cleaning the bricks that are mortared with different types of mortar.

## Suggested Teaching Plan

Dismantling of the task should be carried out after the mortar types used for the 3.2.3 practical task have had the opportunity to cure.

### Teacher's Presentation (15 min.)

- Recap from last time.
- Presentation of the teaching element.
- Review of the task sheet, and discussion on how it can be solved.

### Dismantling of the test wall (1 hour and 15 min.)

- The apprentice familiarizes themselves with the various parameters for dismantling.
- The apprentice dismantles the test wall and fills out the task sheet.
- The apprentice compares their expectations with their experiences.
- Wrap-up (30 min.)
- Apprentices present their experiences.
- The teacher facilitates a collective reflection on what matters in construction for the possibility of dismantling for separation and reuse.
- Guidelines for design for reuse are developed, which can be displayed in the workshop to remind the apprentice to consider separation when building other mock-ups.

## Differentiation

It is possible to differentiate by letting apprentices work in groups. This can "streamline" the teaching process by having more people to build and dismantle, thus allowing the teaching element to be completed in a shorter time.

## Feedback and Evaluation

The teacher provides feedback to the apprentice when the apprentice presents their answers to the task.

