

# Teacher's guide: Construction Drawing

## Theme

- Design for Disassembly
- Idea Development
- Sketch and Construction Drawing

## Recommended Duration in Hours

- 180 min

WOOD



## Introduction

The apprentice is introduced to designing for separation with wood. Various examples are presented to showcase possibilities and case studies as inspiration. Overall, the examples should give the apprentice an introduction to the topic in relation to their profession and an understanding of what makes a wood construction separable and reusable in the long run.

An associated task has been prepared where the apprentice must come up with suggestions and ideas for what they will draw, construct, and later build in module 2.4.2.

## Preparation

- The teacher gives a brief presentation and shows video 2.3.1.
- The teacher introduces the task with examples and gets the apprentice started.
- The teacher helps the apprentice interpret the content on the website as needed.
- The teacher assists the apprentice in answering the task as needed.
- Examples from the video presentation can be followed and imitated as needed.
- The teacher facilitates evaluation and recapitulation.

## Learning Objectives

- The apprentice can assess whether a profession-specific construction is 'designed for separation'.
- The apprentice can separate a construction that is 'designed for separation'.
- The apprentice can design wood constructions so that particularly exposed construction parts can be 'easily' replaced (sacrificial wood).
- The apprentice can demonstrate how constructions can be executed to minimize waste.
- The apprentice can execute construction with a minimum of waste.



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## Content and Purpose

The apprentice constructs drawings for mock-ups showing various profession-specific junction solutions designed for separation.

## Suggested Lesson Plan

Short presentation by the teacher (10 min.)

- The teacher informs the apprentices of the goal of the task. Subsequently, the task on the website to create drawings of details/junctions for design for separation is presented. Video 2.3.1 is shown.

Task: The apprentice creates construction drawings for mock-ups (140 min.)

- The apprentice explores various solution details for design for separation.
- The apprentice creates their own sketches and detail proposals.
- The apprentice produces final construction drawings for mock-up details.

Feedback and Consultation (30 min.)

- The teacher provides feedback and consultation to the students while they draw and create detail solutions.

## Differentiation

For challenged apprentices, the teacher finds examples that the student can work with. More independent apprentices can be challenged on the scope and detailing of the task.

## Feedback and Evaluation

The teacher provides feedback during the process and during the task recapitulation.

