

Introduction

What is the definition of technology? What is the definition of work activity?
What does „list of operations“ mean? What purpose is it used for?
What is WBS? What purpose is it used for?
List the priorities and limitations of planning the time sequence!

Construction of steel structures

Describe the work sequence of the assembly in case of a steel hall structure!
Describe the elements of a steel hall structure! What are the most important parameters to be given in an element consignment?
How to select the lifting equipment for the assembly of a steel structure? What are the main influencing parameters? What factors have to be taken into consideration?
What equipments are used for the construction of a steel structure?

Monolithic reinforced concrete structures

What are the steps of the technology of the in-situ monolithic walls?
What are the steps of the technology of the in-situ monolithic slabs?
What types of formwork are used? What happens with the formwork on the construction site (transportation, preparation, use, storing)?
What kinds of reinforcement are used? What happens with the reinforcement on the construction site (transportation, preparation, use, storing)?
Introduce the transportation, preparation, treating, storing of the concrete!

Prefabricated reinforced concrete structures

What are the advantages and limitations of prefabrication?
What are the design considerations in case of a precast reinforced concrete construction?
Describe briefly the known structural systems used for the precast reinforced concrete structures!
What is a typical work sequence at the construction of a precast reinforced concrete structure proceed to the preparation of the foundation?

Bricklaying, masonry

What kind of masonry elements (bricks and blocks) are known? What is a brick module system?
Show some example!
List and draw the elements of a construction system!
What are the performance requirements of brick walls?
Describe the work sequence of bricklaying work!
What brick bond types are known? Add some figure as well!
What are the joint options of ceramic block walls?

What kinds of mortars are used regarding to the field of application? What material-groups are used for mortars (What are the contents of mortar)?

Facades

What is the difference between the structure of a traditional and a modern facade?

List some surface treatment in case of a rendered surface! What tools are used for it?

What equipments and temporary structures are used for rendering?

What are the assigned requirements for modern facades?

Pitched roofs

Introduce the traditional woodworking joints! What is the difference between traditional and modern technology in carpentry?

Introduce the traditional technology of carpentry (construction of pitched roof loadbearing structure) – tools, steps of construction, materials, storing!

Describe and sketch the technology of roof covering (any material) steps of construction, rules!

Introduce the sheet metal works in writing and sketches: materials, building constructions, tools, connection to other structures!

Assembled partitions and suspended ceilings

What are the main fields of dry construction? Illustrate at least four of them with example!

What kind of gypsum plasterboards are known? What are the main fields of use?

What kind of suspension systems are known for suspended ceilings? Describe the structural elements of a suspended ceiling system!

Describe the system and the assembly of a typical assembled partition wall with gypsum plasterboard shields! Show at least one solution for the junction detail at the ceiling!

Concrete screeds, claddings

What types of screeds are known? What characteristics of concrete screeds are important in construction?

Introduce the technology of concrete screed construction! Steps of construction, preceding and following activities, tools, materials.

What types of floor coverings are known? What are the main technologies and what characteristics are important in construction?

Introduce the technology of wooden floors! Steps of construction, preceding and following activities, tools, materials.

Introduce the technology of tiling and stone flooring! Steps of construction, preceding and following activities, tools, materials.

What is the difference between the technology of fixed carpets and resilient floors? Introduce one technology!

What is the difference between the technology of poured coverings and resilient floors? Introduce one technology!

Introduce the technology of painting! Steps of construction, preceding and following activities, tools, materials.

Introduce the technology of wallpapering! Steps of construction, preceding and following activities, tools, materials.

Insulation works

What kinds of water proofing materials are known and which one of them can be used on flat roofs?

Is that true that the concrete slab must be perfectly horizontal in case of the underlayer of the water proofing on the flat roof is heating insulation that lays on the concrete slab? Explain your answer.

How can you fix the heating insulation onto the horizontal slab in case of the heating insulation material is lumpy cellulose?

Write at least 5 different hand tools for flat roof water proofing in that case the water proofing material is PVC and the PVC layer is fixed to the under layer by glue? (The roof is flat, and there is 50 cm height wall around the roof.)

What would you check before you start any activity of flat roof water proofing?