

VIAConstruction Ltd

Company Handbook

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VIAC.

Table of contents

| | |
|--|---|
| Company background..... | 3 |
| Introduction..... | 3 |
| Conditions for salary and employment | 3 |
| Working time | 3 |
| Illness | 4 |
| Holiday | 4 |
| Staff benefits | 4 |
| Alcohol politic..... | 4 |
| IT-politic..... | 4 |
| Supplementary training and further education | 5 |
| Work tools | 5 |
| Working environment | 5 |
| Quality assurance | 5 |
| Conditions for insurance | 5 |
| Trainees | 6 |
| Termination of employment | 6 |
| Organization chart..... | 6 |

Company background

VIAConstruction Ltd. is an established construction company that was founded in 2004 as a sole proprietorship. The company has since then been constantly expanding and is now a limited company with an annual turnover of approx. 350 million Dkk, and a workforce of approx. 75 employers. The company has its headquarters in Horsens, but does construction projects virtually everywhere in East Jutland.

VIAConstruction Ltd. Carries out construction tasks mainly in the procurement forms of total and main contracts, with soil, drains, and concrete work as in-house production, and with loosely affiliated subcontractors.

The company has mainly focused on new-build construction projects - especially in the field of residential and small office complexes.

Introduction

This handbook is describing the company's policies for the workers. The policies are based on normal Danish rules of employment. The rules count at all-time unless something else is stated.

Conditions for salary and employment

VIAConstruction Ltd is paying the craftsmen by the hour. Their salary is discussed once a year based on their work effort and other employees are salaried employee.

VIAConstruction Ltd is paying their employees according to experience, time in the company and union law. VIAConstruction Ltd also gives some necessary training for the new employees in the company. Furthermore might also be overtime pay, addition for staggered hours, payment for travelling work and nuisance bonus, according to the collective agreement.

Working time

The working time is following the Danish code of law.

On weekdays the work starts at 07.00 o'clock until 15.30, breaks are from 09.00-09.30 and 12.00-12.30, in case of overtime it will be stated in time.

Illness

Illness is handled following the Danish code of law.

In case of illness it must be reported to the secretary before 07.00, even though that it's for several days. If the illness takes more than 4 working days the worker must show a medical certificate stating the illness. This is also stated in the employment contract.

Holiday

All workers can have as many holidays as their union allows, the days must be planned together with the nearest superior, so the holiday doesn't conflict with the company projects. This is also stated in the employment contract.

Staff benefits

The company Provide special launch price for the employees. Besides this the company Sells sports and cultural tickets which can be used at own will and company also offers to cover expenses for health programs. Gatherings are held frequently to keep a good working atmosphere and to help in interact between different cultural people in the company.

Alcohol politic

It is not allowed to drink in the working time, as well as it is not allowed to show up drunk at work. Workers found in drunken condition will be fired immediately.

IT-politic

See Appendix 1

Supplementary training and further education

All personnel must be skilled, so that they can take care of their work, and therefore it's required that they will be send on courses, so that they at all-time are up dated on new requirements, laws, techniques, etc.

Work tools

VIAConstruction Ltd will at all-time be updated with the newest hand tools. Large machinery (which has a value superior as 10000dkk) will be rented so that the machinery is tailored to the exact purpose.

Working environment

It's important for VIAConstruction Ltd that the workers are happy to go to work, that means that if an employee is unhappy about his/her situation they can at all-time go to managing director to present their concerns. VIAConstruction Ltd provides its workers with all the necessary equipment and assistance to ensure their optimal health and safety in the workplace. Also see Appendix 2

Quality assurance

In all cases there must be made quality control which the foreman will be responsible for, but all employees can be given the task to perform the quality control.

All projects are done according to the companies Quality handbook. See Appendix 3

Conditions for insurance

All employees are included in the companies insurances, which are responsibility, accident, life assurance and disabled insurance.

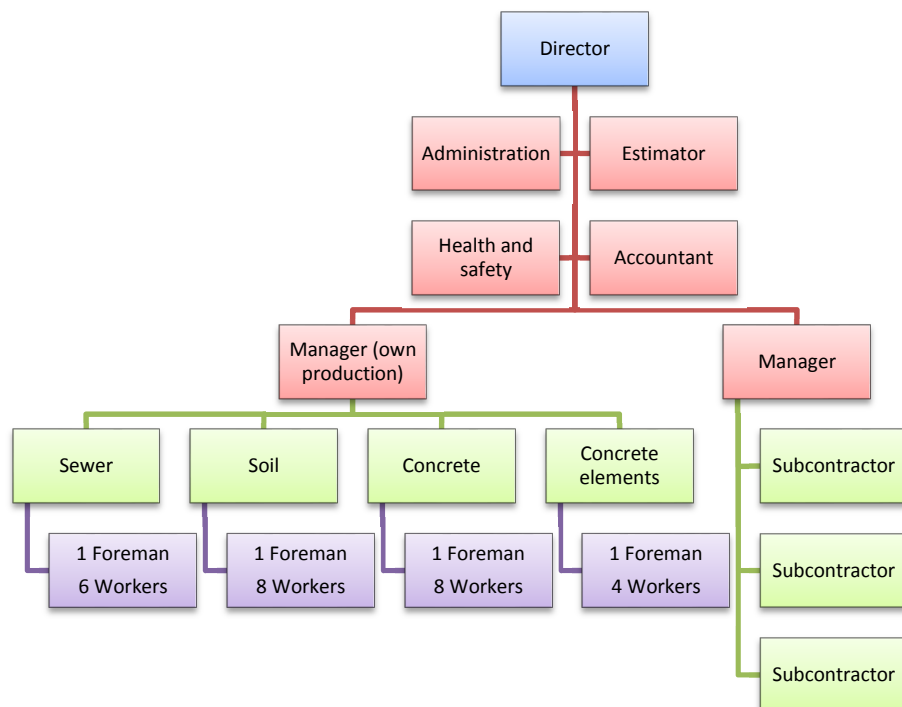
Trainees

VIAConstruction Ltd will try to fill as many trainee positions as possible. In that way the company has the possibility to hire people that know the company and the company knows. This also gives access to people in the vacation time, times with excessive workload and in case of long term sickness of employees.

Termination of employment

At the beginning of the employment there will be made an agreement between the company and the employer, if one of the parts wants to terminate the co-operation it can only be done according to the agreement.

Organization chart



Appendix 1

ICT Manual for VIAConstruction Ltd

Introduction

The ICT Manual of our company describes the templates we are using in everything we are going to create. That is for instance the text height, the text font used in several programs for different documents. This is used so that there can be no difference in the drawings/reports/etc. and it helps the company to work as one engine.

Working Environment

The following programs must be installed on these computers: Revit, Revit MEP, Sketch Up, Microsoft Office Word, Microsoft Office Exel, Microsoft Office PowerPoint, Microsoft Project, Dropbox, LayOut, Acrobat Reader, Faststone Capture. The computers have to be using Windows Vista/Windows 7(may change in future) and they must be maintained.

Sharing Information

There should be a folder for sharing files, drawings, pictures, reports etc. The ones our company is using is Dropbox and Group folder (for Revit) and each member of the company is requested to put all the files he/she is working on into the common folder which can be created in Dropbox. This folder should be maintained and updated daily.

Title box

Our title box should include at least the name of the company, date, scale, name of the project, name of the drawing. The font type is *Arial*, and the size of the letters should be 2,5mm. In case a person would like to write his/her name in the title box, he/she is allowed to do so but he/she has to include the name of the company as well.

Reports

The program used for our reports should be *Microsoft Word*, and the files should be saved as *Word 2007 Document*. The font used should be *Arial*. The size of the letters used is 12 (without using *Bold*, *Underline*, *Italic* markings for the text). The main headings of the text should be between size of 14 to 20 preferably *Bold* and centred. The subheadings should be in size of 14 with *Bold* aligned to left. If the name of the company is included in the text it should be in text size 12 with *Italic*. The reports have to be correctly written and checked for mistakes.

Revit

The template that everyone in our company should use is „VIA_Template_2012_UK.rte“ It can be found on Studienet: [Studynet](#) > [Constructing Architect](#) > [Subject teams](#) > [CAD & ICT](#) > [Shared Documents](#) > [Revit](#) > Templates

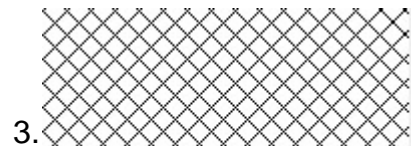
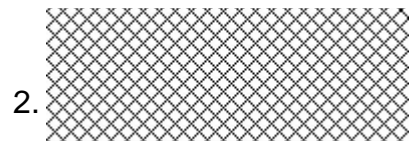
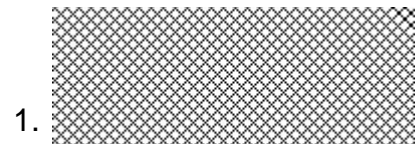
The current file that is being worked on should be always updated in *Group folder*. Text used in all Revit files should be 2.5 - 5 mm *Arial*. Rendering should always be performed at proper quality. There should be correct annotations for each drawing. Dimensions should always be in millimetres without any decimals. Families should be downloaded from <http://revitcity.com> or drawn by the persons who are going to use them. Families should be chosen carefully when being used in each Revit drawing. Sheets should always be indicated in which view type they belong. Each drawing should be carefully checked for mistakes. Everyone who is drawing should always check the 3D View for style mistakes. The auto-save for Revit drawings should be at least on every 30 minutes.

Hatching

Cut section

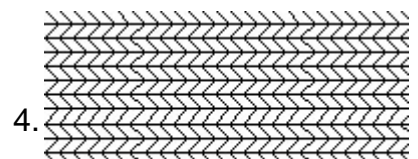
Concrete:

- | | | |
|----|---------------|-----------------|
| 1. | Heavyweight | 1 mm crosshatch |
| 2. | Normal weight | 2 mm crosshatch |
| 3. | Lightweight | 3 mm crosshatch |



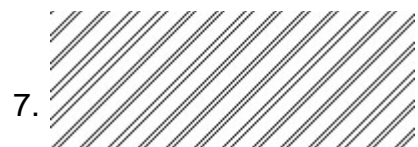
Wood:

- | | | |
|----|----------|---------|
| 4. | Plywood | Plywood |
| 5. | Hardwood | Wood 1 |
| 6. | Softwood | Wood 2 |



Metal:

- | | | |
|----|-------|-------|
| 7. | Steel | Steel |
|----|-------|-------|



Insulation:

8. Wool

9. Polystyrene

Horizontal for vertical elements
Vertical for horizontal elements

10. Leca nots

Gravel 2

Other materials:

11. Plasterboard

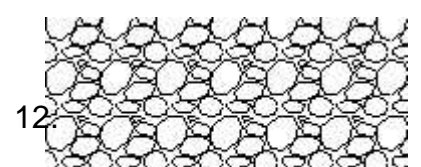
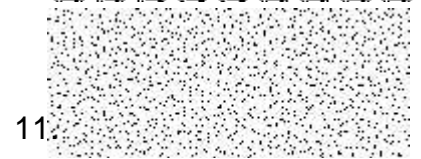
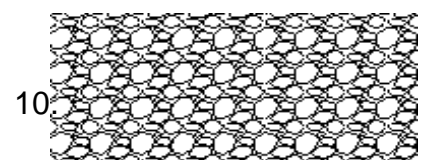
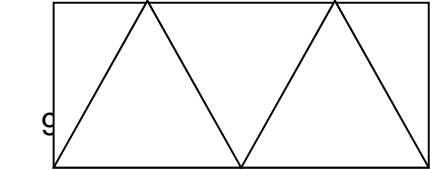
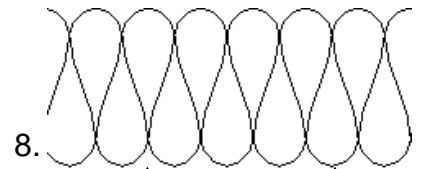
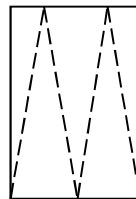
Gypsum-plasterboard

12. Gravel

Gravel 1

13. Leca blocks

13.



Plan drawings

Finishes:

14. Tiles

Squares 100 mm

15. Parquet

Parquet

16. Wooden board

wood board 1

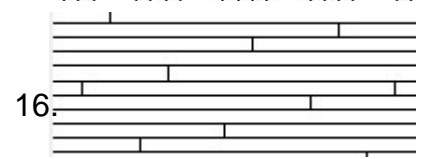
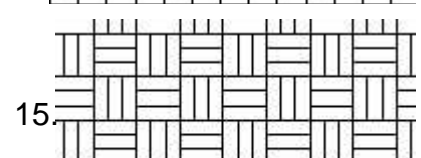
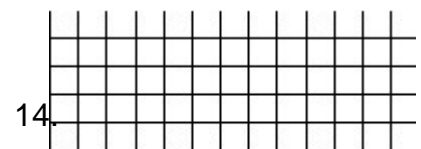
17. Linoleum

Squares 600x1200mm

Other materials:

18. Bitumen

Solid black



Elevations

Finishes:

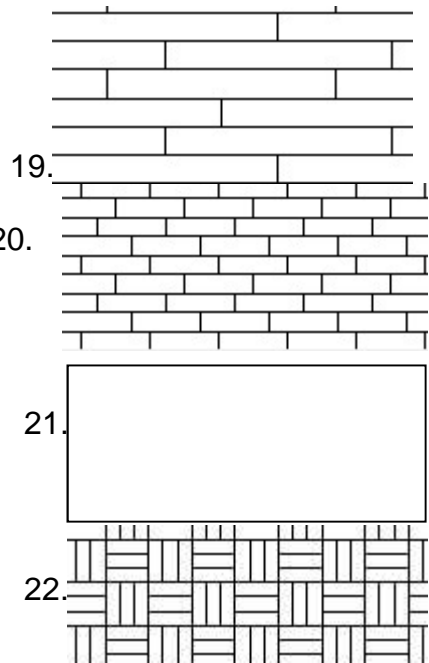
19. Wood Wood board wide

20. Bricks Stretches DK standard

21. Concrete Solid white

Soil

22. Site, Section Earth





Fire analysis


Load bearing, not seperating

Load bearing, seperating


Not load bearing, seperating

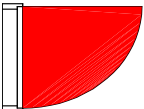
BS 120 - EI120A2-s1,d0
 LILLA (MAGENTA)

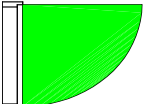
BS 60 - EI60A2-s1,d0
 RØD (RED)

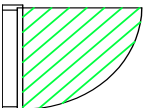
BS 30 - EI30A2-s1,d0
 GUL (YELLOW)

BD 60 - EI60
 BLÅ (BLUE)

BD 30 - EI30
 GRØN (GREEN)


BS 60 - EI₂60-C A2-s1,D0


BD 30 - EI₂30-C


BD 30M - EI₂30


BÆRENDE, IKKE ADSKILL.
 R

BÆRENDE, ADSKILLEND
 REI

ADSKILL, IKKE BÆRENDE
 EI

 R60A2-S1,D0

 REI60A2-S1,D0

 EI60A2-S1,D0

 Escape route

 Fire compartment

XXXXXXXXXXXXXXXXXXXXX Fire division (section)

Sketch Up

Each project on which the company is working on should be drawn in Sketch Up first. This is necessary for an Outline proposal that will be shown to the client, before the technical part of the project comes.

Posters

Posters should be made in LayOut 3, Revit or Microsoft publisher but other programs can be used for minor changes. Drawings on posters should always be in correct scale. Text used for posters should always be in font *Arial* and should always have size 14 and bigger with headings with size 18 and bigger.

Appendix 2



Quality- and Environmental Handbook for large Contractors

February 2013

Part 1 Goal and politics

1.1 Description of the company

1.2 Quality-goals

1.3 Environmental goals

1.4 Organization

1.5 Job descriptions

Part 2 Procedures

2.2.1 Graphic overview

2.2.2 Management of documents

2.2.3 Elaboration of Quality- and environmental plans

2.2.4 Process scrutinity and

2.2.5 Project scrutinity

2.2.6 Management of drawings and changes of drawings

2.2.7 Selection of suppliers and purchase

2.2.8 Information to staff

2.2.9 Delivery control

2.2.10 Process control

2.2.11 Final control

2.2.12 Repairing defects and defienicies

2.2.13 Inspection and maintenance of the system

2.2.14 Environmental goal, environmental objective and environmental-action-programme

Enclosure forms

Part 3 Quality Assurance Handbook

Part 1 The company

1.1 description of the company

Name: *VIAConstruction Ltd.*

Address: Kollevaengiet 24/205, 8700 Horsens.

The contractors A/S execute *construction tasks mainly in the procurement forms of total and main contracts, with soil, drains, and concrete work as in-house production, and with loosely affiliated subcontractors.* The company is established in 2004 as a sole proprietorship. The company has since then been constantly expanding and is now a limited company with an annual turnover of approximately **350 million Dkk, and a workforce of approximately 75 employers.** The company participate in public and selected tenders and construct buildings by own means.

This PSH Handbook is elaborated by *VIAConstruction Ltd.* and published in a registered part 1 and an unregistered edition part 2. The registered edition is numbered, and revisions will be sent to the owners of the PSH Handbook according to a distribution list. The registered edition is for internal use at Health and safety- trade Ltd. The unregistered edition is sent out to costumers, authorities etc. in connection with prequalification's and will not be part of the on-going revision.

Date: 14.02.2013

Managing Director *VIAConstruction Ltd.*

1.2 Quality goal

It is the politic of VIAConstruction Ltd. to deliver buildings and civil works of good workmanship quality corresponding with the expectations of our customers. The requirements this politic put to the company and the employees, make it necessary to follow the guidelines, stated in the following Q.A. Handbook. The Handbook shall therefore be known and accepted by all employees in the company. The Q.A. Handbook accounts for our Quality politic, describe the organization of the company including the procedures and company habits, which are used to ensure the fulfilment of the Quality politics.

It is the declared goal of the company to appear as a Quality-concerned company, executing the trades at a workmanship level, which in all aspects, fulfil the costumers' expectations, and as a minimum fulfils the demands set by law at any time including the departmental order regarding Quality assurance 2001. All trades are executed with due consideration regarding environmental impact, work environment (Safety and Health) and usage of resources including handling of waste.

The usage of substances, harmful for environment, shall be limited, just as noise- and dust pollution for other workers on the trade including neighbours to the building site. The company have implemented a Quality Management system which is documented in the following Q.A. Handbook that is known and used by all employees in the company.

The handbook is divided up in 3 independent parts.

- Part I contains goal and politics, handed out free and will not be maintained at the individual owner.
- Part 2 contains a documentation of the companies' procedures. It is numbered and not for handing out. It will also contain certain forms and other aids for the execution of Quality Management.
- Part 3 which is elaborated for the individual trade, and is for the clients' disposal. This part will be maintained according to need.

1.3 Politics

Services

A good and satisfactory quality for the client is a crucial competition factor for the company and by that, the survival of the company. Therefore all trades have to go through a complete scrutiny and client's important Quality demands and eventually environmental demands have to be clearly and unambiguous agreed. The trade manager shall during the execution supervise fulfilment of all agreements. The responsible person shall ensure an acceptable solution for the company and that execution can be done in the agreed time, before agreements for tasks are made.

Following are pre conditions for the company to ensure delivery of the right Quality at any time,

- That the requested Quality demands to the services of the company are covered through a systematic Quality management in all levels from marketing to delivery,
- That feedback from clients are collected and elaborated,
- That the client always get what have been promised in the agreed time corresponding with specifications, based on the Quality goal, the list of common known Quality problems and a general wish for Quality improvements. The director elaborates specific Quality objectives which are measureable. The director elaborates a plan of action for the individual Quality objective, which as a minimum contains:

- The actual Quality objective divided in measurable intermediate aims
- Who is responsible for the individual intermediate aim
- Time schedule with intermediate aims
- Planned moment for completion of the Quality objectives
- How the Quality objective are achieved (methods, equipment, new work instructions)
- Criteria for evaluation of achievement of the Quality objective (e.g. method for measurements).

Purchase.

Before ordering, an assessment of the suppliers' ability and fulfilling our demands is needed, to ensure usage of the right materials in the required Quality level. All materials have to be controlled according to the control plan for delivery control, when receiving at site.

Staff education

All staff members of the company shall have a possibility to participate in courses or get job training within their field of work. Managing staff and key persons have an obligation to keep up dated with the technological development in their field of work.

Good Quality is produced by motivated and professional skilled staff, that the Contractor Ltd. wishes to attract and maintain.

Environmental impact

It is the politic of the company to limit the energy consumption of installations and transport.

Quantities of waste shall be reduced by a better usage of materials, and the waste shall be sorted out to ensure maximum recycling. The usage of substances harmful to the environment shall, if possible, be reduced by replacing with other less dangerous substances. The company aims to improve environmental efforts by updating the detailed environment objectives. The environment objectives and their implementation status are communicated to the staff simultaneous.

The director formulates an environmental goal based upon the environmental politic of the company, the possible environmental impact caused by the implementation process including economy and operation conditions of the company. The director elaborates a list with normal occurring environmental impacts. The director elaborates specific measurable environmental objectives, which are based on the environmental goal and the list of normal occurring environmental impacts. The director elaborates an environmental plan of action for each environmental objective, which as a minimum contain:

- The actual environmental objective
- Who is responsible
- Time schedule with intermediate aims
- Planned moment for completion of the environmental objectives
- How the environmental objective are achieved (methods, equipment, new work instructions)
- Criteria for evaluation of achievement of the environmental objective (e.g. method for measurements).

Clientcontact.

It have to be ensured when entering into agreements, by a complete analyze that the client's need and expectations to the executed work will be fulfilled, that his requirements get fulfilled including needed corrections of his expectations.

All enquiries from the client regarding defects and deficiencies of executed work are replied with a proposal for solving the problem within 5 days from receiving the enquiry.

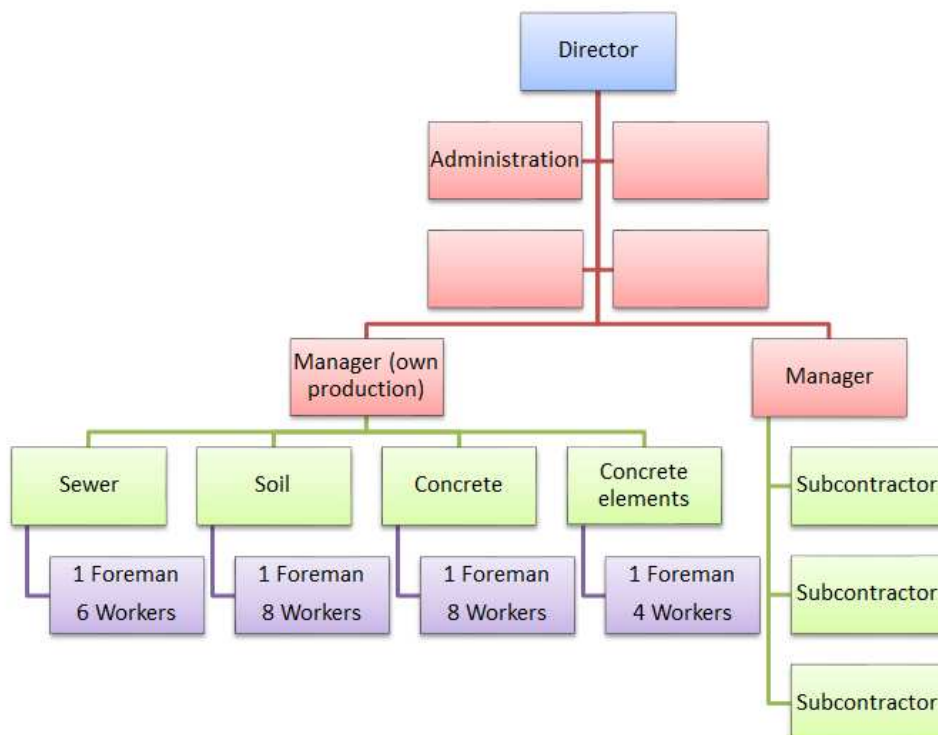
Selection of sub-contractor.

Sub-contractors and suppliers shall serve the company the best they can, in business and quality. This means:

- That we have to select confident sub contractors and suppliers in which we believe can execute the project regarding Finance and Quality and can fulfil the requirements in the project.
- That we shall consider and treat our sub contractors and suppliers as equal collaborators.
- That disputes shall be settled by negotiations and not in court.

1.4 Organization

It is emphasised that the individual effort has an influence on both the quality of the executed work and the impact on the environment, and therefore the employee should know her/his rights and duties, included the demands to the executed work. The management of the individual functions is responsible for information and education of the employees needed to fulfil these demands. The director has the overall responsibility for an effective Quality- and Environmental Management, which fulfil the demands in the Handbook and is liable to the authorities.



1.5 Function descriptions

Project manager: in connection with turnkey contracts and partnering. He is responsible for the design and construction management.

Site manager: He is in connection with projects in main contracts. He represents de client in aspects related to the planning and the implementation of individual trade contracts. He also has the overall responsibility for all work on site. He supervises the work and is responsible for the coordination of building site safety.

Foreman: He manages the workers in "own production". He is a salaried employee and as such, he is not financed through the budget of a particular project.

Part 2 Procedures

Content:

2.0 Distribution list

2.1 Wordlist

2.2 Procedures:

2.2.1 Management of documents

2.2.2 Elaboration of Quality- and environmental plans

2.2.3 Process scrutiny

2.2.4 Project scrutiny

2.2.5 Management of drawings and changes of drawings

2.2.6 Selection of supplier and purchase

2.2.7 Information to employees

2.2.8 Receiving control

2.2.9 Process control

2.2.10 Final control

2.2.11 Repairing defects and deficiencies

2.2.12 Inspection and maintenance of the system

2.2.1 Management of documents

Goal:

- Ensure that all relevant documents are accessible and retrievable.
- Ensure that all agreements are registered and communicated to the relevant colleagues of the project.
- Ensure that only valid editions of documents are on the working places.
- Ensure that environmental enquiries are registered

Validity:

- All project specific documents and agreement-notes.
- All documents used for management of assignments. (control schedules, paradigm for letters, work instructions etc.)
- Relevant legal demands and provisions.
- Enquiries in writing regarding environment and work safety.

Responsibility:

The director has the responsibility, that all relevant documents are registered and that the procedures are followed.

The calculator has the responsibility for: assignment of project case numbers, numbers for internal documents and registering internal documents.

Case responsible project manager are registering case relevant documents and maintain lists of documents (drawing lists).

Background:

- Approval and issue of documents and data.
- Environmental management documentation
- Staff Handbook

Approach:

All enquiries or enquiries regarding new work-assignments are registered on form xx, which are given a consecutive number. The case is given a number as soon as price estimation or participation in a tender is agreed and decided. All agreements concerning deviations from the project are registered on agreement-note xxx, which are issued with date and signature. All changes, which deviate from the project material, are registered on deviation-note, issued with case number, date, serial number and signed by project manager.

Information regarding new laws and departmental orders is achieved from organization/subscription.

Enquiries regarding environmental conditions are handled by the director and all enquiries in writing are replied in writing.

Documents:

- Drawinglists
- Documentoverviews

Archive:

- Tender material is filed in calculation department
- Production relevant documentation, including existing laws and departmental orders, are filed in trade department.
- Case specific material is filed in case file under the case number.
- Environmental enquiries and replies are filed in a separate file by date.

2.2.2 Elaboration of Quality Assurance Handbook.

Goal:

- Document to the client, which Quality management- and environmental management activities are used at the case.
- Inform employees about, which control measures are agreed with the client.

validity:

- Trades, where there is demand for Quality Assurance.
- Environmental management activities executed for all trades.

Responsibility:

Project manager.

Approach:

The project manager looks through the project material after taking over the trade. The project manager elaborates the Q.A.Handbook based on demands to Quality Assurance and companies own environmental goals, which contain information regarding: organization of the case, approach at process scrutiny, information of employees and finished control plans. The project manager informs the subcontractors about demands for Q.management and Q.A. including environmental management, when contracting.

The project manager describes how environmental action plans for each trade are specified in demands in the individual trade. Project manager's assessment of the relevance of the environmental impacts, are considered and if there are new possible environmental impacts. In case of specific environmental demands from the client, they are incorporated. The demands to the individual trade are forwarded to the site in the Quality-plan.

2.2.3 Process Scrutiny

Goal:

Ensure that all demands are documented. Clarify comprehensibility problems regarding the project. Uncover conditions, which may lead to failure, or are particular risky or difficult to execute. Uncover conditions which may lead to environmental impacts. Prevent emergence of work environmental problems during the execution.

Validity:

All projects and contracts with clients. The scrutiny is documented at projects where it is agreed and project Scrutiny meeting is executed with the client (representatives of the client), which is documented by minutes from meeting.

Responsibility:

Project manager of trade

Background:

Town and Dwelling agency guidance

Approach:

During the bidding, eventually ambiguities and quality-relevant problems in the project are registered. These are to be solved as far as possible with the client by the calculator, before the bid is filed. Project manager and foreman and eventual calculator shall participate in the process scrutiny. Critical work operations are identified during the process scrutiny and control plans are elaborated for delivery- and process control, which account for:

- What to control?
- Who will do it?
- Where in the process?
- How often?
- How?
- Which documentation, is elaborated for the control.

The possible environmental impacts are scrutinized during the process scrutiny. The company's standard list with environmental impacts which normally occurs, are used as starting point. If the process scrutiny point out other possible environmental impacts, which are not on the list or indicate that some from the list are of no interest for the trade, this is communicated to the director for lay-out of environmental goals for the trade (see procedure 2.2.13). It is recorded in the minutes from meeting, whether more or less possible environmental impacts are registered than from the standard list. After acceptance, a process scrutiny is executed and project scrutiny meetings with the client are held as agreed. For the project scrutiny meeting, a quality plan and proposal for a control plan should be elaborated.

Minutes from the process scrutiny provide a basis for the project scrutiny meeting. Contract manager follow up, that eventual problems are solved e.g. at follow up meeting.

Documents:

Minutes of meetings

Filing:

In case folder

2.2.4 Project scrutiny meeting

Goal:

- Ensure that intentions in the project are understood.
- Ensure that the available drawing material is sufficient.
- Ensure that the project is practicable and feasible in line with legislation in force.

Validity:

All projects with demands for Quality assurance.

Responsibility:

Contract manager

Approach:

The participants are called in by request of the Company with a minimum of 14 days' notice. Eventual ambiguities and Quality-relevant problems are registered. Timeframe for solutionproposals are determined.

Q.A. Handbook is scrutinized and control procedure determined

Procedure for interim certificates and agreement notes are determined.

Participants: Contract manager and eventually responsible fitter and also client and/or client's representative.

Documentation:

Minutes from project scrutinity.

Filing:

In case folder

2.2.5 Management of drawings and changes in drawings

Goal:

- Ensure that only valid drawings are used by execution of the work.
- Ensure that valid drawings are at the building site at any time.
- Ensure that invalid drawings are removed from the place of usage.
- Ensure that changes are approved by contract manager before execution

Validity:

All trades

Responsibility:

Contract manager

Approach:

All changes have to be documented and stated clearly by marking of change and date of the change in the document. Changed documents have to be sent to the contract manager at the address of the company. Contract manager have to approve all changes and distribute the documents to the relevant places of usage (building site). The foreman bring about changes further to workplaces and withdraw invalid drawings, which is marked clearly with stamp or in another way, and also placed in a special archive.

2.2.6 Selection of suppliers and purchase

Goal:

Ensure that all used materials fulfil Quality- and environmental demands for the project and the company, and that requested documentation are present.

Validity:

Delivery of materials, which are built in, or have an impact on the Quality.

Responsibility:

Contract manager

Approach:

Possible suppliers enquire information regarding, which informative labelling, test certificates, certificates and other Quality- and environmental-relevant documentation, they can deliver with the products. Contract manager ensure, that suppliers understand eventual environmental demands. The sub-suppliers ability and will to keep the agreed Quality- and environmental-level is assessed eventually by a visit to the Company. A suppliers list is elaborated from where suppliers are selected to projects. The list shall be on the building site.

2.2.7 Education and information to employees

Goal:

- Ensure that own employees and sub-contractors knows work-methods and Quality- and environmental demands in the project.
- Ensure that own employees have relevant education.

Validity:

Information: Relevant operations with particular emphasis on operations where there is special Quality- or environmental demands.

Education: own employees,

Responsibility:

Information: Foreman.

Education: Director.

Approach:

By employment of new employees, the director looks through their education and discusses the need for further education together with the employee. New employees are informed about the system for Quality Management and Environmental Management and about the company's Quality- and Environmental goal. The employee's obligations regarding Quality and Environment and the importance of acting in line with the procedures are looked through. The director draw up a basic file on each employee, where time for information regarding the system is registered together with the education and planned education. The need for education is revised once a year as a minimum. The foreman instruct verbally by starting up an operation or by run in of a new team on the building site. In special occasions, the foreman makes a work sketch, or written instruction is handed out, e.g. user manual or Byg-Erfa sheets.

2.2.8 Deliverycontrol

Goal:

- Ensure that used materials fulfil the demands in the project.
- Ensure that materials are without considerable defects and deficiencies.
- Ensure that complains regarding deliveries with deficiencies are handled in due time.
- Ensure that the requested Quality documentation is procured.

Validity:

All deliveries

Responsibility:

Foreman.

Approach:

The foreman order deliveries according to the project- or material list at the suppliers on suppliers list. All deliveries are controlled for: transport damages, correspondance between delivery note, ordering list, recieved materials and marking. Delivery note is signed. The foreman make complains to the supplier in case of deviations and decide whether the delivery shall be sorted out or returned. If the defect has an influence on the time schedule or the quality of the executed work, the contract manager are informed and will decide what to do.

2.2.9 Processcontrol

Goal:

- Ensure that all executed work is according to project demands.
- Ensure that all work is executed craftsman like.
- Ensure that all work fulfil the company's Quality norms.
- Ensure that all work fulfil the company's environmental goals for the individual project.
- Ensure that work is executed according to legislation in force.

Validity:

All works.

Process control regarding Quality is documented by control plans and control schedules, where it is requested in contract or agreed with the client.

Process control regarding environment is documented by control plans and control schedules at all works.

Responsibility:

Contract manager has the responsibility for planning and follow up.

Foreman has the responsibility for practical execution.

A substitute is pointed out at control activity.

Approach:

Deviations, which have an influence on the Quality of the final work or on fulfilment of environmental goal for the project, are reported to the contract manager, who will decide the consequences of the deviation, and determine necessary provisions. The client shall be informed about all deviations and approve all deviations, which are not repaired and which have an influence on the quality of the completed work. A deviation report is elaborated, which have to be approved by the client.

2.2.10 Final control

Goal:

- Ensure that all completed works fulfil Quality demands from the project and politics from the company.
- Ensure that eventual defects and deficiencies are repaired, before handing over to the client.
- Ensure that the company's goal regarding delivery of buildings without defects and deficiencies are met.

Validity:
All projects

Responsibility:
Contract manager

Approach:
Contract manager goes through the trade with foreman, eventual defects are registered, and repairing is initiated immediately. Control documentation, certificates and other agreed documentation is examined and arranged for handing over to the client. File with documents are signed by contract manager and foreman as receipt that the contract part is ready for handing over.

Documentation:
File with quality relevant documents, dated and signed by foreman and contract manager.

Filing:
In case file.

2.2.12 Repairing of defects and deficiencies.

Goal:
Prevent unintended usage of deviating materials or services in the completed building.
Clarify eventual deviations internal, and where it is relevant with the client or supplier.

Validity:
All works

Responsibility:
Foreman

Approach:
Every material, which deviates from demands in the project, has to be returned or sorted according to agreement with supplier or used after documented permission from the client. Rejected deliveries have to be marked clearly until decision for use or scrap is taken. Materials, which are sorted out and scrapped, have to be removed from the building site. Deviating services have to be demarcated, until the deviation is corrected or accepted by the client, and client's accept is documented.

Documents:

Control schedules

Minute from final control scrutiny

2.12 Inspection and maintenance of the system**Goal:**

- Ensure that the system is in line with the company's Quality- and environmental goal and politics.
- To get corrective actions
- To assess the effectiveness of the system

Validity:

The complete Quality management- and environmental management system

Responsibility:

Director

Approach:

Random check visits on building sites are executed to control observance of Quality- and control plans. List of defects from handed over building cases are scrutinized. Feedback from the client are scrutinized.

Every ½ year, the director scrutinizes the process control schedules from selected contracts and assess on this basis, the fulfilment of the environmental goals. Earlier decisions regarding rectifying actions are controlled for result. The results are presented at ½ year meetings between foreman, contract manager and director. A minute for decisions are elaborated at the meeting, regarding which rectifying actions are needed, to keep the system work effective and ensure that the system is followed. The director initiates the rectifying actions and follow up on the execution of these.