

Safety & Health Management Makes You Fit For Success

How do you stay legal compliant?

How do you enhance your productivity and cut costs?

Your Answer is ...

... Safety & Health Management

Alfred MOERGELI

Certificated Civil Engineer FH, EUR ING

SWISS Safety & Health Engineer EigV/BSV

<http://www.moergeli.com>

1. Why Should You Use S&H Management? To stay Legal and Enhance your Productivity

How do you manage **all the legal requirements** of your ...

- Laws and statutes?
- Project specifications?
- Contracts?

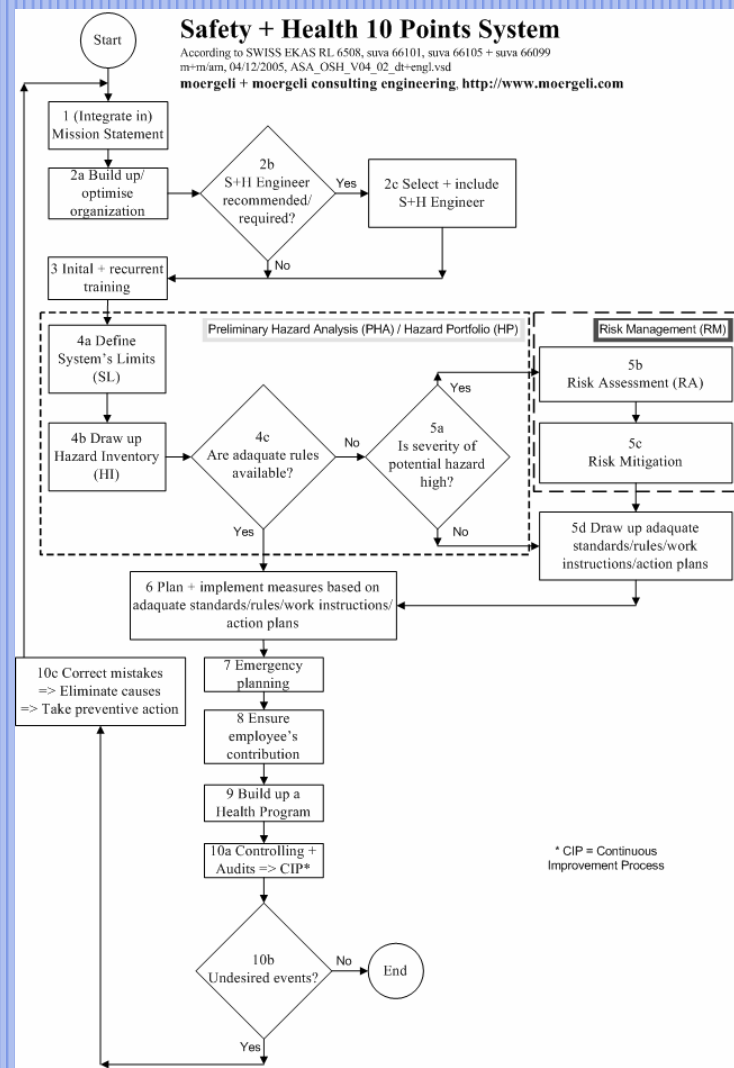
Safety & Health Management is your best investment to pro-actively **enhance your productivity and cut your costs.**

S&H Management is really **your only tool** to achieve legal compliance that is **feasible, affordable and available** to you just in time.

2. What is Your Real Added Value from S&H Management?

1. Early on **identification of all your relevant S&H hazards**
2. **Everyone's full commitment** to measurable goals
3. Systematic use of available **safety rules**
4. A **Safety Plan** enhancing your **productivity and safety**
5. **Bring your team aboard** by a transparent **communication**
6. Have a thorough and **updated documentation**
7. **Win legal compliance**, keep your liability limited!

3. How does Safety + Health Management Work? Use a Safety & Health System



Important **steps** for your **Safety & Health**:

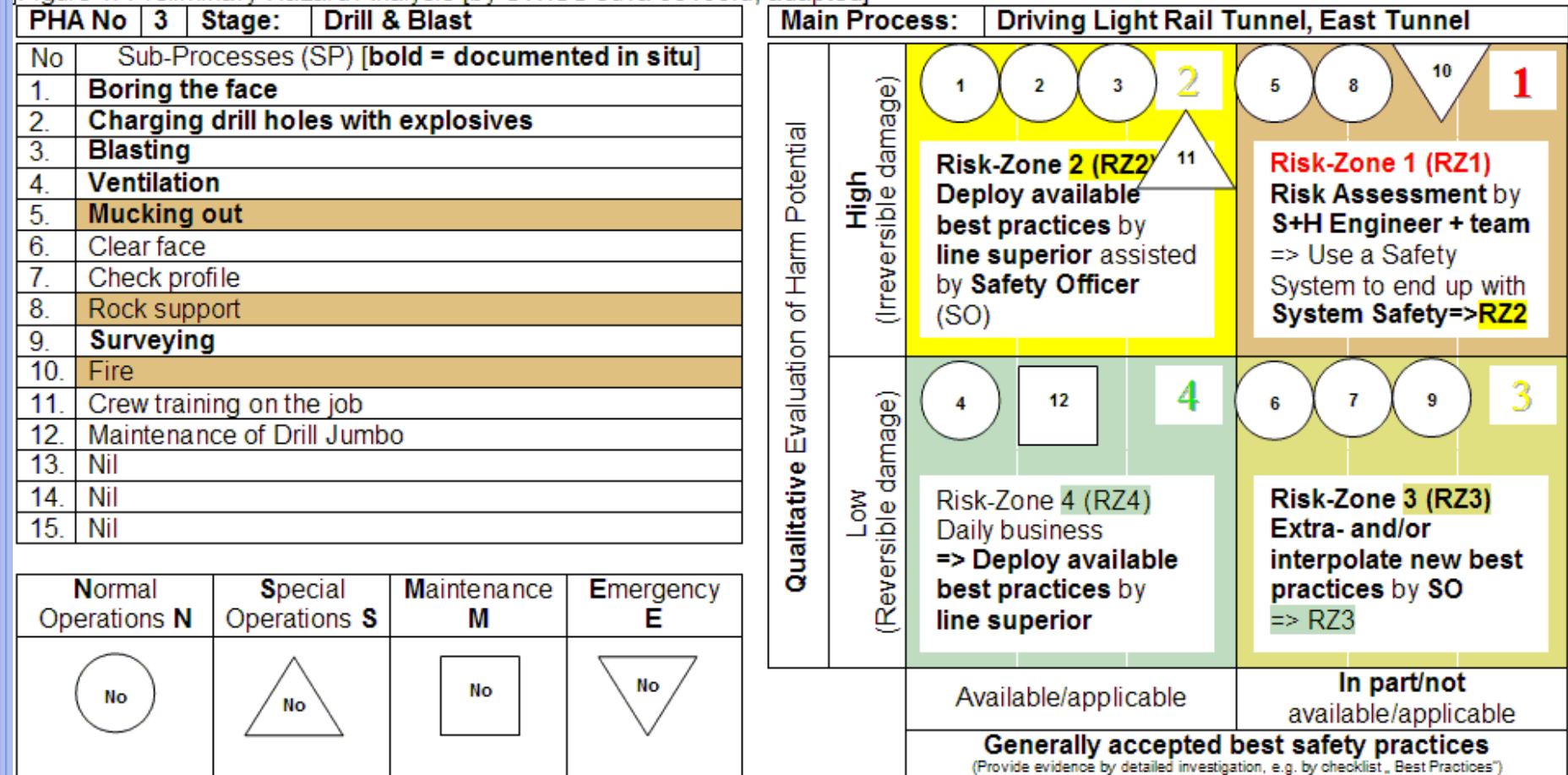
- 1 Win everyone's **commitment**
- 3 Systematic and periodic **crew training**
- 4 Use available **safety rules**
- 6 Plan and implement all necessary **measures**
- 10 **Keep on learning!**
Keep your **Continuous Improvement Process (CIP)** working

Please feel free to download all original
flowcharts from our website
<http://www.moergeli.com>

4. Safety & Health Management in Action

Use a Preliminary Hazard Analysis (PHA)

Figure 1: Preliminary Hazard Analysis [by SWISS suva 66105.d, adapted]



5. Safety & Health Management in Action

Example: Fire on TBM/Back-up

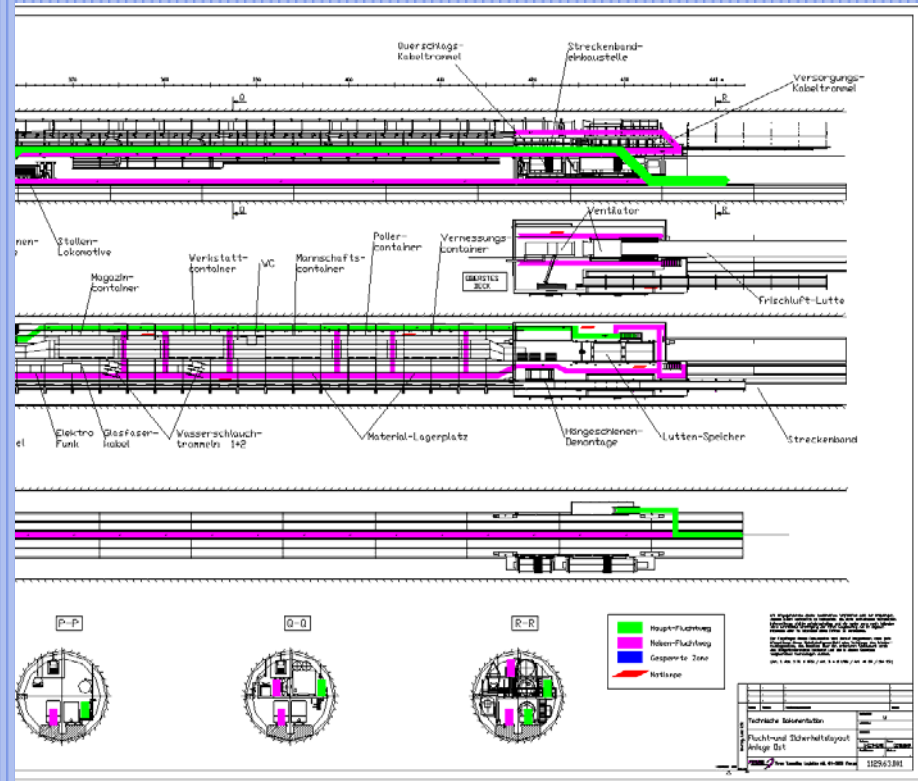
PHA No	1	Stage:	TBM Drives East + West
No	Sub-Processes (SP) [bold = documented in situ]		
1.	Detection		
2.	Alarm		
3.	Save lives		
4.	Fight initial fire		
5.	Self rescue/self evacuation		
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

Normal operations	Special operations	Maintenance	Emergency
○ No	△ No	□ No	▽ No

		Main Process:		Crew rescue in case of fire on TBM/Back-up	
Qualitative Evaluation of Harm Potential	High (Irreversible damage)	▽ 3	2	▽ 4	▽ 5
	Low (Reversible damage)	▽ 2	4	▽ 1	3
		Available/applicable		In part/not available/applicable	
		Generally accepted best safety practices <small>(Provide evidence by detailed investigation, e.g. by checklist „Best Practices“)</small>			

6. Safety & Health Management in Action

Example: Selection of Measures



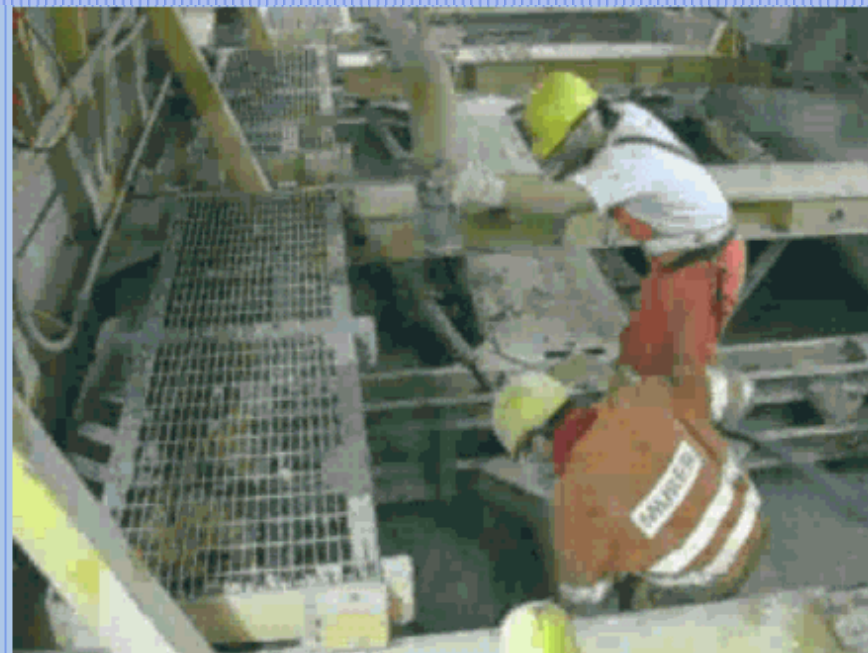
Part of Evacuation Plan
TBM Trailing Back-up

Fire Fighting Station (AFFF)
TBM Trailing Back-up

courtesy of rowa: <http://www.rowa-aq.ch>

7. S&H Management ... Works Everywhere Protect Yourself by Protecting your Crew

S&H Management makes them **safe** – **saving yourself and your project**



Video: Shotcrete clean-up, 01/14/04

Video: Invert Concrete, 11/06/03

Swiss AlpTransit, Gotthard Base Tunnel: <http://www.alptransit.ch>

Lot 252, Tunnel Amsteg: <http://www.acn-amsteg.ch>

If S&H Management works **here ... it works everywhere!**

8. Self Certification

Make Sure You Have the Right and Safe Partners!

Self Certification **To be submitted with proposal**

Company address: Project:

Project Manager (First name, SURNAME):

Please confirm all applicable items with an x – thank you.

Our company fulfills all legal requirements for Safety + Health.

All requirements by
.....
(please precisely specify all relevant laws, statutes, standards etc) are implemented

Either by participating at an industry, company group or model solution
(please attach copy of confirmation of participation and of attendance of the basic training)

Or through a specific solution by the participation of a Safety + Health Expert

Safety + Health Experts have been involved/participating for the implementation of the specific solution and the following measures have been implemented:

Own experts (First name, SURNAME):

Involved experts (company, First name, SURNAME):

The Hazard Inventory/Risk Assessment is documented for the entire company

The Safety Concept is documented and actively implemented

The Action Plan is documented and the implementation is current

The Training and Information of all employees are documented and current

Other activities or remarks:

Our company pays all Health Insurance premiums regularly.

Yes

Remarks:

The client is hereby authorized, to check all above given information.

Date	Company stamp	Legally signed off	
		First name SURNAME	First name SURNAME
		Left-Position Signature	Right-Position Signature
	

Request Self Certification ...

- from **all your suppliers and subcontractors**
- as **early on as possible**
- declaring their fulfillment of **all relevant legal requirements for Safety & Health**
- explaining which way they choose for S&H compliance
- legally signed off

... to minimize your own liability

9. Conclusions

Set up Your Organization and Get Started ... Today!

All you have to do is:

- Appoint a **Safety & Health Manager** reporting to your (project) CEO
- Define your qualitative + **quantitative (measurable, annual) goals**
- Start with a **Preliminary Hazard Analysis (PHA)**
- Make the best use of all relevant **safety rules and best practices**
- Use a well **known and accepted Risk Management (RM) Method** if required
- Setup a comprehensive **Safety Plan**
- **Implement** your Safety Plan
- Learn as much as you can and **continuously** improve your plan
- Keep a thorough and **current documentation**

10. Your Consequences - What's Your Next Step? Just Do It!

Safety & Health Management is not rocket science and it does not take a wizard!

Just get it started – and keep it going and current.

So, start (or resume) your Safety & Health Management **today!**

We are here to assist you: <http://www.moergeli.com>

All our tools are available for download from our website.

Take care and stay safe!

We need you all to shape a safer and more economic world!