



Lloyd's
Register

Welcome to the Lloyd's Register Client Portal!

To access, please register with your email address.
If you are already a registered user, please enter your
email address and password.



Choose language



English



Refer to Item 18 - For pilot phase, only 4 languages will be provided i.e. English, Norwegian, Finnish and Swedish

Email Address

Password

Log in

Forgot Password? [Click here.](#)

Refer to Item 1 & 2 - Unique user ID and password

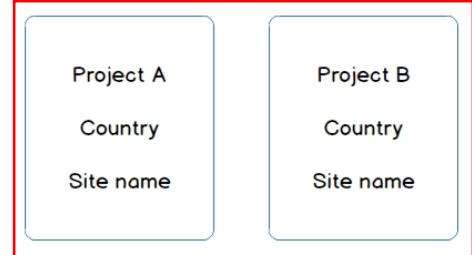
Refer to Item 4 - Logo will bring user to LR's webpage

Lloyd's Register
Digital Barrier Analysis

Lloyd's Register
Other Products

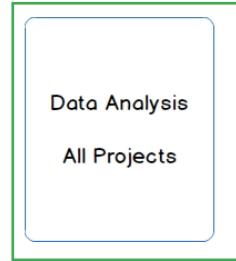
Refer to Item 5 & 6

Refer to Item 4. **Pilot development UX/UI to include this.**



Refer to Item 10 - The "Create New Project" window will pop-up (see next page)

Refer to Item 11 & 22 - This will bring user to the "Manage Account" page



Refer to Item 8 & 9 - For pilot phase, user is able to create up to 20 projects or sites.

Refer to Item 12 - It will navigate the user to a summary page showing the statistics of all the analyses across the projects in the tool. **Pilot development UX/UI to include this with lightbox feature.**

Project A
Country
Site name

Project B
Country
Site name

+
Create New Project

DBA Create New Project

https://dba.lr.org

Project Name	Free textbox
Country	Free textbox
Site Name	Free textbox

Cancel Create

Refer to Item 14 to 17,
19 & 20

Data Analysis
All Projects

Same as previous page

Project A
Country
Site name

Project B
Country
Site name

Project C
Country
Site name

+
Create New
Project

Data Analysis
All Projects

Same as previous page

Manage Accounts

Cancel **Save**

Refer to Item 22, 24 & 25 - Only administrator is given the rights to add/remove users, as well as assign projects to users

Manage Accounts

Cancel **Save**

Item 95 & 96 - "User Summary" page provides a brief summary and history of user actions (track user activity)

Same as previous page

Refer to Item 4

Refer to Item 34 - It will navigate user to "User Summary" page. Pilot development UX/UI to include this with lightbox feature.

Digital Barrier Analysis - Project A

Welcome to LR's Digital Barrier Analysis tool

Barrier analysis is a methodology used to analyze HSE risks, and should be used as basis for the project/assignment specific HSE risk analyses that are carried out, focus only on those work operations that are relevant for the assignment.

This interface is created for on-site personnel to perform barrier analysis before carrying out a work/operation on site. Through this, we raise safety awareness for personnel at all levels.

Each day an appointed supervisor should create a new record for every work/operation that will occur on-site. By inputting the relevant information, the tool will provide a high-level advice on whether the work can take place. Each new record describes one potential incident, therefore if a work/operation could result to multiple incidents, the supervisor has to log multiple records.

At a specific arranged times (bi-weekly or monthly), LR can conduct workshops to summarise all records that were logged, provide new insights to safety, discuss and implement new barriers to make work/operations safer.

To start with your Barrier Analysis, upload your Barrier Analysis worksheet.

[Start Analysis](#)

Refer to Item 29 to 32, 35 to 41

Refer to Item 4

[Home](#)
[Workshop](#)
[Create/Update Record](#)
[Results](#)
[Summary](#)

Settings

Pre-defined Lists

Work Type:

[Edit](#)

Work Operations:

[Edit](#)

Potential Incident:

[Edit](#)

Note:

These pre-defined lists for work type, work operation and potential incident should be fixed and agreed upon in the workshop. The list should contain all categories defined and used within the barrier analysis worksheet. If there is discrepancy between the uploaded worksheet and these lists, the upload will not be successful and the administrator will need to resolve the issue before uploading the worksheet again.

[Save](#)

Risk Matrix

		Increasing Severity	Very Low	Low	Medium	High	Very High
		1	1	2	3	4	5
Safe		1	1	2	3	4	5
Slight Danger	2	2	4	6	8	10	12
Dangerous	3	3	6	9	12	15	18
Critical	4	4	8	12	16	20	24
Catastrophic	5	5	10	15	20	25	30

Red Not acceptable - the task can not be done without further action.

Orange ALARP - Several measures must be considered before completing the task. Should look at the possibility of "global" measures.

Yellow Tolerable - The task can be completed, but should consider several measures to further reduce the risk.

Green Acceptable - No need for further action.

Refer to Item 43 to 48 - Clicking on "Edit" will open up another window. Administrator is allowed to change risk matrix setting

Refer to Item 36 to 39

Settings

Pre-defined Lists

- Work Type: [Edit](#)
 Work Operations: [Edit](#)
 Potential Incident: [Edit](#)

Note:

These pre-defined lists for work type, work operation and potential incident should be fixed and agreed upon in the workshop. The list should contain all categories defined and used within the barrier analysis worksheet. If there is discrepancy between the uploaded worksheet and these lists, the upload will not be successful and the administrator will need to resolve the issue before uploading the worksheet again.



[Save](#)

Refer to Item 44 - Administrator
can edit/add/remove items

Same as previous page

Settings

Pre-defined Lists

- Work Type: [Edit](#)
 Work Operations: [Edit](#)
 Potential Incident: [Edit](#)

Note:

These pre-defined lists for work type, work operation and potential incident should be fixed and agreed upon in the workshop. The list should contain all categories defined and used within the barrier analysis worksheet. If there is discrepancy between the uploaded worksheet and these lists, the upload will not be successful and the administrator will need to resolve the issue before uploading the worksheet again.

[Save](#)

Risk Matrix

DBA Settings - Work Operations

Work Type: Drop down list

Work Operation: All work near third party, All work operations, All work by road, AUS work high voltage, AUS work low voltage, Blasting, Cabling

	Medium	High	Very High
Medium	3	4	5
High	6	8	10
Very High	9	12	15
Red	12	16	20
Orange	15	20	25
Yellow			
Green			

Cancel Save

Red Not acceptable - the task can not be done without further action.
 Orange ALARP - Several measures must be considered before completing the task. Should look at the possibility of "global" measures.
 Yellow Tolerable - The task can be completed, but should consider several measures to further reduce the risk.
 Green Acceptable - No need for further action.

Refer to Item 45 - Administrator
can edit/add/remove items

Same as previous page

Settings

Pre-defined Lists

- Work Type: [Edit](#)
 Work Operations: [Edit](#)
 Potential Incident: [Edit](#)

Note:

These pre-defined lists for work type, work operation and potential incident should be fixed and agreed upon in the workshop. The list should contain all categories defined and used within the barrier analysis worksheet. If there is discrepancy between the uploaded worksheet and these lists, the upload will not be successful and the administrator will need to resolve the issue before uploading the worksheet again.

[Save](#)

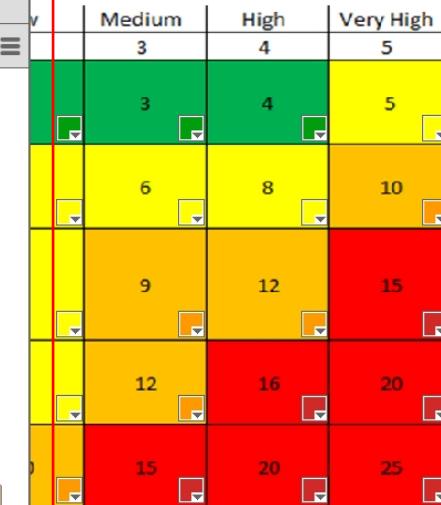
Risk Matrix

DBA Settings - Potential Incidents

Work Type: Drop down list
 Work Operation: Drop down list
 Potential Incident: Drop down list

Allergi eksem eller annen skade på hud. Kreftfremkallende
 Blyforgiftning
 Brann
 Brann forgiftning etc
 Brannskade fra lysbue kuttskade skuddskade

[Cancel](#) [Save](#)



Red Not acceptable - the task can not be done without further action.
 Orange ALARP - Several measures must be considered before completing the task. Should look at the possibility of "global" measures.
 Yellow Tolerable - The task can be completed, but should consider several measures to further reduce the risk.
 Green Acceptable - No need for further action.

Refer to Item 46 - Administrator
can edit/add/remove items

Same as previous page

LR Store > Digital Barrier Analysis > Project A Setting Username

Workshop

Export Template **Export Records** **Import Records**

S/no Work Type Work Operation Potential Incident Additional Explanation/rfor Scenario/r(if necessary) Consequence Type of Consequence

Risk Overview (Before implementation of suggestions)

	Ubetydelig	En viss fare	Farlig	Alvorlig	Katastrofe
Veldig høy	68	42		90	
Høy	10	67	19		
Medium	11	49	23	41	
Lav	71	19	45	73	98
Veldig lav	52	32	27	18	6

Risk Overview (After implementation of suggestions)

	Ubetydelig	En viss fare	Farlig	Alvorlig	Katastrofe
Veldig høy	47				
Høy	100	23			
Medium	62	82	16		
Lav	6	18	70	80	
Veldig lav	72	9	93	78	94

Refer to Item 36 to 39

Refer to Item 50 to
51, 53 to 55

Refer to Item 4

Home
Workshop
Create/Update Record
Results
Summary

Create/Update Record

 Select Record Create new Update

Work Description & Risks

Work Type 

Drop down list

Work Operation 

Drop down list

Potential Incident 

Drop down list

Incident description 

Free textbox

Consequence 

Drop down list

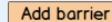
Consequence type 

Drop down list

Barriers Description

Existing barriers 

S/n	Barrier desc.	Type	Dependency	Dependency desc.
1	Free textbox	T	1/2/3/...	Free textbox

Suggestions (if any) 

Free textbox



Refer to Item 63 to 85

Create/Update Record

Select Record Create new Update

Work Description & Risks

Work Type ②

Work Operation ②

Potential Incident ②

Incident description ②

Free textbox

Consequence ②

Drop down list

Consequence type ②

Drop down list

Existing barriers ②

S/n	Barrier desc.	Type	Dependency	Dependency desc.
1	Free textbox	T	1/2/3/...	Free textbox

Add barrier

Suggestions (if any) ②

Free textbox

Submit

A modal dialog titled "DBA Select Record" is displayed. It contains fields for Work Type, Work Operation, and Potential Incident, each with a dropdown menu. At the bottom are "Cancel" and "Select" buttons. A red box highlights this modal, and a red arrow points from its bottom right towards the text "Refer to Item 88 to 93".

Refer to Item 88 to 93

Same as previous page

Create/Update Record

Select Record Create new Update

Work Description & Risks

Work Type 

Work Operation 

Potential Incident 

Incident description 

Free textbox

Consequence 

Consequence type 

Barriers Description

Existing barriers 

S/n	Barrier desc.	Type	Dependency	Dependency desc.
1	Free textbox	T 	1/2/3/... 	Free textbox 
2	Free textbox	T 	1/2/3/... 	Free textbox 

Add barrier

Suggestions (if any) 

Free textbox

Submit

Same as previous page

Refer to Item 4

Home
Workshop
Create/Update Record
Results
Summary

Results

Project Name: Project A

Work Type:

(Select All)
(Select All)
Cabling
Cleaning
Construction Work
Demolition work
General
Lifting operations
Mechanical work

Work Operation:

Date: 17/05/2017

Time: 13:00

	Ubetydlig	En viss fare	Farlig	Alvorlig	Katastrof
Veldig hoy	47				
Høy	100	23			
Medium	62	82	16		
Lav	6	18	70	80	
Veldig lav	72	9	93	78	94

Refer to Item 36 to 39

Save as PDF

Upload Photos

Upload Documents

Safe Job Analysis

Refer to Item 97 to 100 - User to select the <Work Type> and <Work Operation> and a summary of the results will be tabulated

Refer to Item 101 - This exports selected results as PDF document

Refer to Item 102 & 103. Pilot development UX/UI to include this with lightbox feature.

Refer to Item 133 - Digitising Safe Job Analysis. Pilot development UX/UI to include this with lightbox feature.

Home
Workshop
Create/Update Record
Results
Summary

Results

Project Name: Project A

Work Type: Construction Work

Project Number: 12345

Work Operation: Work in ditch

Date: 17/05/2017

Time: 13:00

- | | | |
|----------|--|----------|
| 1 | Falling object - Objects fall over someone who is in the ditch | 8 |
| | 1) Training and best practices
2) Signage and occasional shredding (when working by road)
3) Protective equipment - see instructions
4) As a rule, the ditches are not deep enough for the consequence of falling objects to be large. Make local assessment. | |
| 2 | Fall damage - People falling into the ditch | 4 |
| | 1) Training and best practices
2) Protective equipment - see instructions
3) Signage, fences and/or barracks are set up to prevent 3rd party - based on customer requirements | |
| 3 | Clamp damage - Clamped between equipment/tools and trenches, etc. | 6 |
| | 1) Training and best practices
2) Protective equipment - see instructions
3) Communication between the various players | |

	Ubetydelig	En viss fare	Farlig	Allvorlig	Katastrofe
Veldig høy	47				
Høy	100	23			
Medium	62	82	16		
Lav	6	18	70	80	
Veldig lav	72	9	93	78	94

[Save as PDF](#)

[Upload Photos](#)

[Upload Documents](#)

[Safe Job Analysis](#)

Same as previous page

RAM Results.pdf - Adobe Acrobat Pro

File Edit View Window Help

Create | Page Thumbnails | Tools | Comment | Share

1 / 1 | 83.6% |

Page Thumbnails

1

Refer to Item 101 -
The Field Engineer
can print a hardcopy
of the document to be
used for on-site
verification

Lloyd's Register

Project Name: Project A Work Type: Construction Work
Project Number: 12345 Work Operation: Work in ditch

1 Falling object - Objects fall over someone who is in the ditch 8

1) Training and best practices
2) Signage and occasional shreeding (when working by road)
3) Protective equipment – see instructions
4) As a rule, the ditches are not deep enough for the consequence of falling objects to be large. Make local assessment

Recommendations

Additional potential incidents

Additional safeguards

2 Fall damage - People falling into the ditch 4

1) Training and best practices
2) Protective equipment – see instructions
3) Signage, fences and/or barricks are set up to prevent 3rd party based on customer requirements

Recommendations

Additional potential incidents

Additional safeguards

3 Clamp damage - Clamped between equipment/tools and trenches, etc. 6

1) Training and best practices
2) Protective equipment – see instructions
3) Communication between the various players

Recommendations

Additional potential incidents

Additional safeguards

Name of Field Engineer: Signed: Date:
Name of Approving Officer: Signed: Date:
Photos attached: Safe Job Analysis:

Name of Field Engineer:	Signed:	Date:
Name of Approving Officer:	Signed:	Date:
Photos attached: <input type="checkbox"/>	Safe Job Analysis: <input type="checkbox"/>	

Refer to Item 4

LR Store > Digital Barrier Analysis > Project A

Home
Workshop
Create/Update Record
Results
Summary

Summary

147

Number of Records

5

Number of Recommendations

0

Critical Issues

<Work Type>

(Select All)

- Cabling
- Cleaning
- Construction Work**
- Demolition work
- General
- Lifting operations
- Mechanical work

<Work Operation>

Refer to Item 36 to 39

Recommendations List

No.	Recommendations	Assigned To	Status	Actions Taken
1	SJA must be conducted when working in particularly deep ditches	Operations	Open	
3	Separate measures must be taken when digging deep ditches	Operations	Open	
4	Assess the use of flagsmen as well as the need for demolition	Operations	Open	
5	For individual cases it must be assessed whether the lift can be driven by external. Local measures are assessed in each case	Operations	Open	
2	Instructions must be implemented	Operations	Closed	Standard operating procedure was developed

Edit Action Plan

Refer to Item 112 to 115.
- Risk Level Bar Graph
- Barrier Statistics Bar Graph.
Pilot development UX/UI to include this.

Export Charts to PDF

Refer to Item 122. **Pilot development UX/UI to include this with lightbox feature.**

Refer to Item 111

Refer to Item 124.
This will bring user to Action Plan page.
Pilot development UX/UI to include this with lightbox feature.

Refer to Item 123 & 125

Summary

147

Number of Records

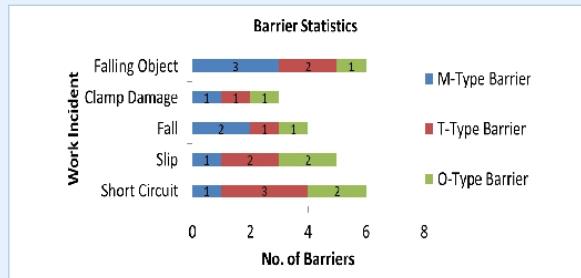
5

Number of Recommendations

0

Critical Issues

Construction Work ▾ Work in Ditch ▾



Recommendations List

No.	Recommendations	Assigned To	Status	Actions Taken
1	SJA must be conducted when working in particularly deep ditches	Operations	Open	
3	Separate measures must be taken when digging deep ditches	Operations	Open	
4	Assess the use of flagsmen as well as the need for demolition	Operations	Open	
5	For individual cases it must be assessed whether the lift can be driven by external. Local measures are assessed in each case	Operations	Open	
2	Instructions must be implemented	Operations	Closed	Standard operating procedure was developed

[Export Charts to PDF](#)

Same as previous page

Refer to Item 127 to 130