

ExproBase

www.exprobase.com

ExproBase is a collection of practical knowledge for improved safety and reliability of well and subsea technology independent of company affiliation

Knowledge Base for Safety and Reliability

Reliability is probably the most important attribute for well and subsea technology from a life cycle profit point of view. Most well and subsea technology components are barrier elements and must also be reliable to maintain safety and integrity. Vendors that are able to deliver reliable technology and operators that are using reliable technology will increase their market shares and profit.

Needs

Individuals working in multidisciplinary teams for improved safety and reliability need easy access to basic knowledge within multiple disciplines.

The solution

ExproBase is a collection of practical knowledge for improved safety and reliability of well and subsea technology independent of company affiliation.

Benefits

Use of ExproBase will:

- Give instant access to multidiscipline knowledge related to safety and reliability
- Improve learning and problem solving abilities
- Improve communication with experts ('ask the right questions')

Key features

Key features for ExproBase are:

- Web-based solution
- Focus on basic descriptions and relations (short and to the point)
- Focus on well and subsea technology
- Continuously updated based on new experiences
- Quality assurance prior to publishing

Content

Knowledge modules in ExproBase are:

- Guidelines
- Databases
- Textbooks
- Presentations
- Templates

The current guidelines describe project planning, project execution and risk analyses. Each guideline is divided into phases with activities and decision gates. Each activity describes what to do, the purpose, deliverables, how to do it, roles and responsibilities. All guidelines are based on practical experiences. The other modules are multi-disciplinary support tools for the guidelines like materials database, failure mechanism database, equipment database, operational conditions database, human factors database, barrier textbook, reliability textbook etc.



Contact information

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Figure 1
ExproBase navigation figure

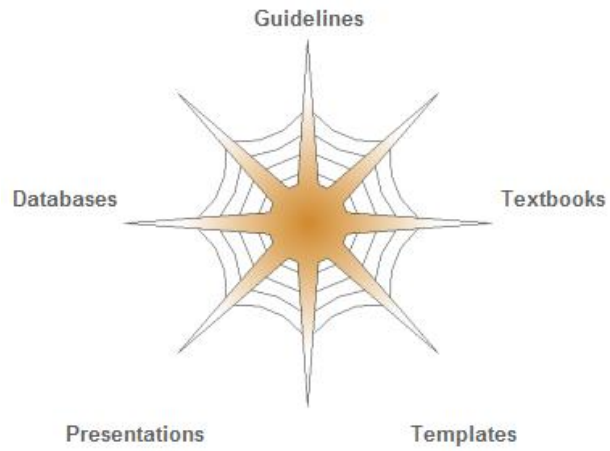
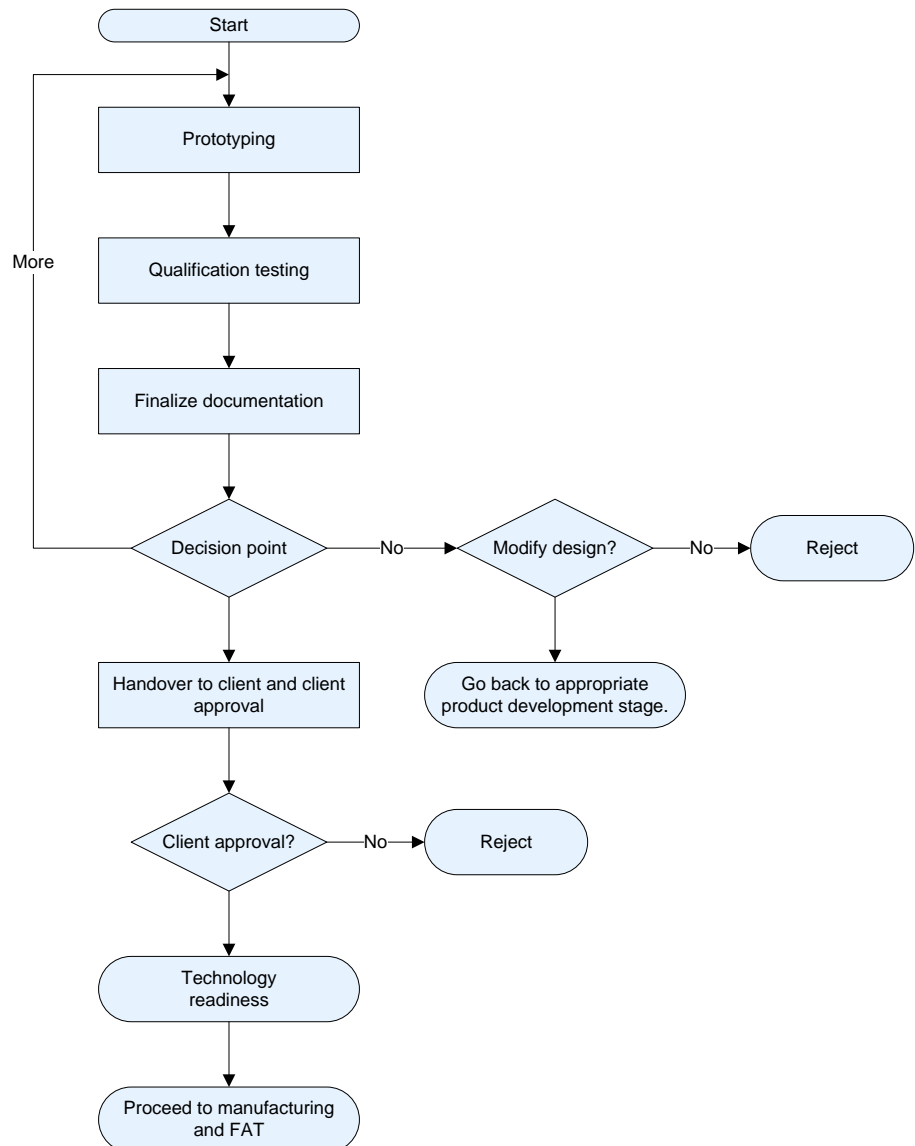


Figure 2
Guideline flow chart example



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Figure 3
Well equipment navigation
figure

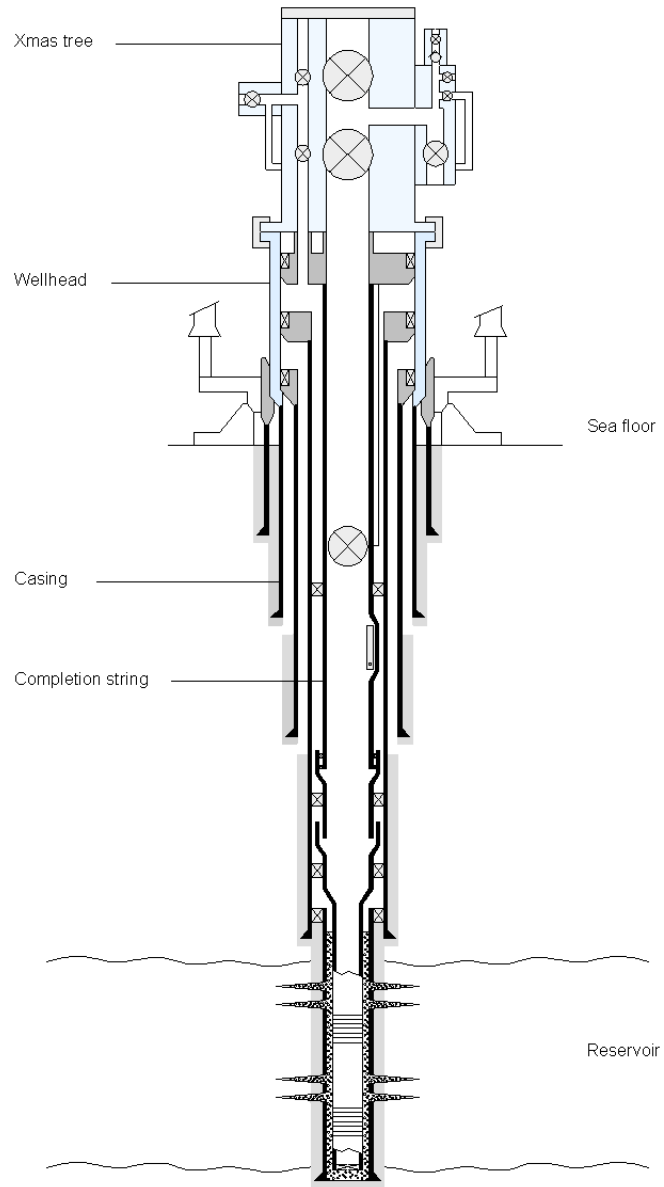
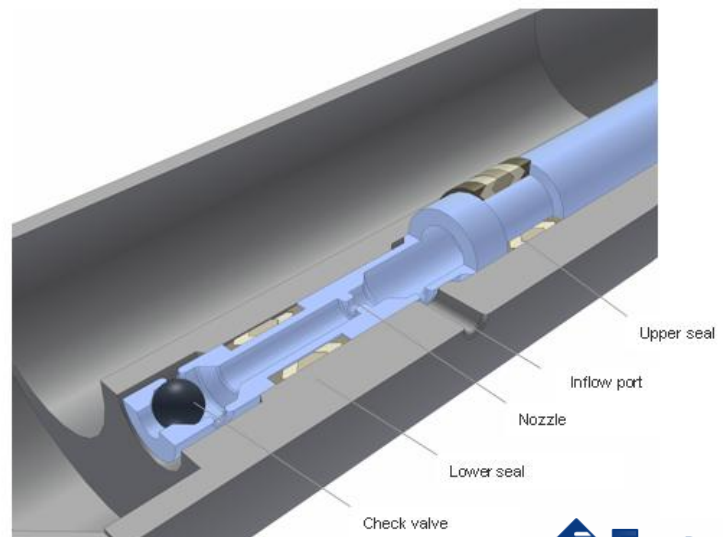


Figure 4
Details of the operational
gas lift valve (GLV) from the
well equipment database



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ExproBase aims to provide practical knowledge related to safety and reliability

Use

ExproBase is not intended to replace in-house governing documents or experts, but may be a supplement for improved understanding of safety and reliability issues amongst practical engineers working with one or more of the following tasks:

- Technology procurement
- Technology qualification
- Maintenance
- Well integrity
- Organization development
- Reliability analysis
- Failure investigation

ExproBase can also be used as a reference for everyday use, such as:

- Dictionary
- Synonym lists
- Abbreviation lists
- Standard overviews
- 'What is' descriptions
- 'How it works' descriptions

Students aiming for the upstream oil and gas industry may benefit from using the practical knowledge in ExproBase during their studies and thus be more prepared for the real world.

Services and maintenance

ExproSoft is a company located in Trondheim, Norway, providing independent services related to safety and reliability of well and subsea technology. ExproSoft is responsible for the development, quality assurance and publication of more than 670 ExproBase articles. ExproBase has been a great public success with:

- More than 120 000 users during the last year
- More than 600 daily users in August 2011

Due to lack of financial support for day-to-day maintenance, ExproSoft has decided to close ExproBase as a public domain web site. ExproBase is still available for operators, vendors, authorities and universities with an ExproSoft business agreement. Please contact ExproSoft sales (sales@exprosoft.com) for further information.

History

ExproBase has been developed continuously by enthusiasts since 1997 and evolved to become a public domain web site in October 2009. The major contributors have been SINTEF, Hydro and Statoil.

Core team

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