

# Noise damage prevention and Hearing Conservation

*” Through focusing on barriers and robust working practices, we shall reduce the risk of work related illness and injuries.”*



# Measures relating to noise adopted in 2012

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- ear plugs pilot study
- training and competence
  - Training campaign relating to noise and Beerenberg's noise, vibration and ergonomics regime
  - CBT course developed
- testing of hearing protection
  - Peltor active XP
  - Quietpro
- questionnaire survey
  - identified use of personal protective equipment, knowledge about noise and barriers
- individual follow-up started up



# Ear plugs pilot study

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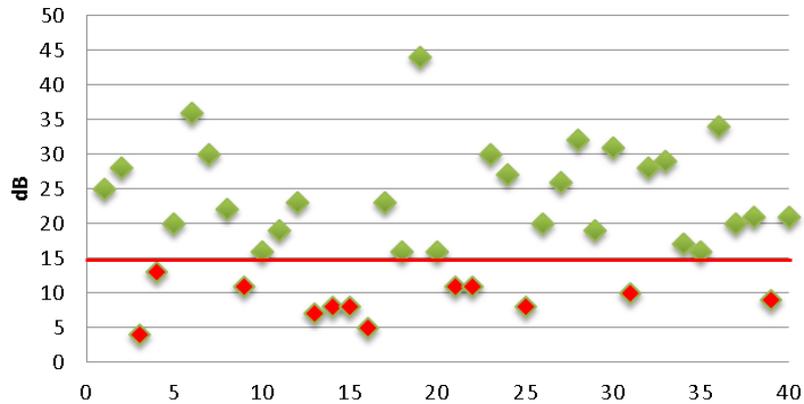
- Purpose - ensure enhanced control and protection against noise exposure through:
  - Individual training, practice and motivation.
  - Ensure and document the effect of ear plugs as a barrier.
- Tested a pre-defined selection of ear plugs that as of today is commonly in use on the Ekofisk field + an additional selection
- Selection: 40 persons from various disciplines and with different work tasks



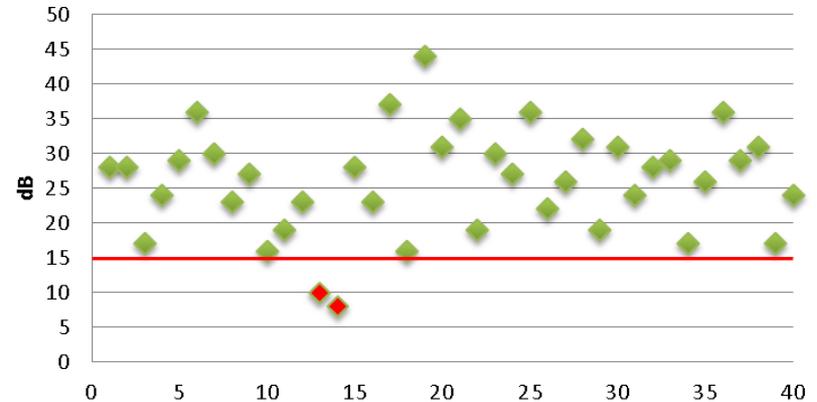
# Significant improvement of attenuation values achieved by means of individual adaptation and instruction

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## PAR values – 1. test



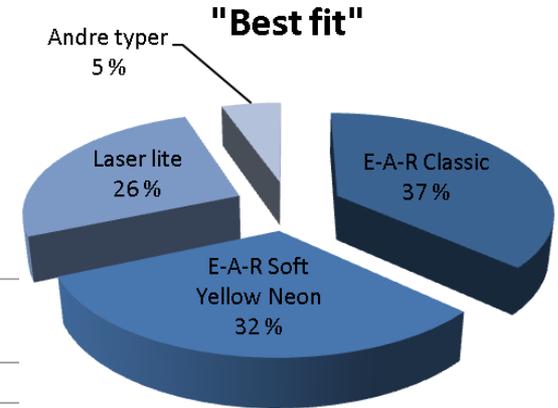
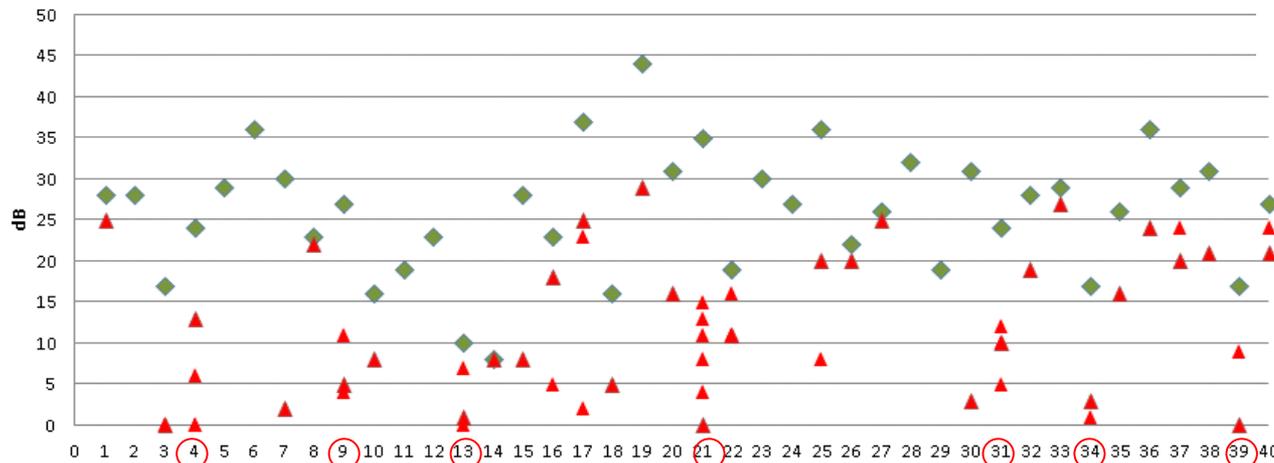
## PAR values - "best fit"



# A certain minimum of ear plugs is necessary

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PAR verdier - "Best fit" vs. alle testresultater



◆ Best Fit  
▲ Andre testresultat

Employees who have received information are more likely to state they find ear plugs that fit

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		Have you received information about noise prevention and how to protect yourself		Total
		Yes	No	
Do you have access to earplugs, that you feel suits your ear?	Yes	468 84.0%	53 58.9%	521 80.5%
	No	89 16.0%	37 41.1%	126 19.5%
Total		557 100.0%	90 100.0%	647 100.0%

Pearson Chi-Square P=0,000

## Conclusion and recommendations



- Through individual instruction/training we can :
  1. Have increased confidence in the effect of ear plugs as a barrier
  2. Obtain a safe sound level for employees
  3. Give knowledge and competence in order to stimulate enhanced compliance.

Start tomorrow - get a proper selection of earplugs, provide training, and underline the importance of using them correctly