Digital Ship Hong Kong
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E-learning
Are We Moving in the Right Direction?

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Marnav Singapore
Marstal Navigationsskole (Marnav) is a Danish nautical training institute combining state-of-the-art education with the proud tradition of its long history.

- Officially opened in 1860
- Today more students than ever
Marnav offers the whole range of nautical training courses including:

✓ Nautical courses on all levels

✓ Supplementary training courses including
  ➢ E-learning

All courses are approved by the Danish Maritime Authority (DMA) and they are taught by a team of professionals guaranteed to be up-to-date with the latest developments.
What is E-learning?
The short version

ELECTRONIC LEARNING
The long(er) version

- web-based learning
- computer-based learning
- virtual classrooms and digital collaboration
- delivery of content via internet, intranet/extranet
- audio- and videotape
- satellite broadcast
- interactive TV
- CD-ROM
Timeline I

- 1998: E-learning is considered an individual business area
- 2000: The internet matures and to some extent replaces CD-ROM as the preferred learning medium – particularly of course ashore
- 2002: The products mature and more international solutions are in demand
- 2004: Blended learning comes in vogue making E-learning more robust competing with other learning methods
Timeline II

• 2006: The amount of experience with E-learning projects now makes it possible to discuss the advantages based on a return of investment argument – both financial and knowledge/learning wise

• 2008: The financial crisis impacts travel and training budgets strengthening the financial argument for E-learning

• 2010: Social media become common property and the identity enhancing and collaborative learning perspective is attempted incorporated in more and more E-learning courses
E-learning revisited

• The Logistic argument: ”We do not need to meet so often physically – we can go through the material (the course) when it suits us individually”

• The economy argument: ”If we have enough participants we can save a lot using e-learning” – ”Practically no travel/accommodation costs involved”

• The content/quality argument: ”We can ensure that all users receive identical material quality assured by subject matter experts and didactic consultants”

• The learning argument: ”If the content and the context are reasonable, we can maximize the participants’ learning utilizing various means like on screen text, video, gaming, quizzes, tasks, tests, etc.”
Statistics

How much of the training required for seafarers is now carried out by means of e-learning (as defined just now)?

30 %

How much of training required for shore based staff is now carried out by means of e-learning?

10-70%
Statistics

How has the amount developed over the last 5 years?

– Sea staff: 20-30%
– Shore staff: 5-10%

One respondent indicated an average (both sea staff and shore staff) increase from 0 to 50%!
Statistics

Is the trend pointing upwards or downwards – and how steep is the curve (i.e. what percentage increase or decrease do you expect over the coming 5 years?)

5-10%

Some respondents just indicated that they are working very hard to increase the e-learning percentage.
Statistics

Do you plan to purchase e-learning courses for your seafarers in 2013? Affirmatively how big a chunk of your training budget will be used on e-learning?

The answers differed from:

NO
to
DEFINITELY – AS MUCH AS POSSIBLE!
What is the main advantage(s) when using e-learning?

- “The training can be done at the convenience for the trainee”

- “The seafarer can perform the course when it’s good for himself. In future the courses can be very specific due to connection to different servers”
Statistics

What is the main disadvantage(s) when using e-learning?

- ”The personal touch and the possibility to have something more deeply explained by a trainer”

- “There is none”
Statistics

What can be done better (gaming environments – 3-D animations, movies)?

- ”???”

- ”There are no limits”
Crew quality and qualifications – are these limiting factors?

- ”No limitation as long as the right e-learning courses only are used for the right persons”

- “For us we consider it will increase the company specific requirements”
Statistics

*Is there a limit to the amount and content of E-learning courses and, if so, have we reached it?*

- ”There should be a limit making sure that the summary of all training is more or less constant. There is no time for more training. So, whenever one training is added, some previous training has to be removed”

- “No limit if it is combined with on-board training”
Statistics

*E-learning via hand-held devices (e.g. smart phones) - is the market there yet for seagoing staff?*

- ”NO”
- “Good thought, maybe IPAD?”
# Learning – Generation based learning styles

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<tbody>
<tr>
<td>Traditionalists</td>
<td>1928-1945 (65+ years old)</td>
<td>Hierarchical, loyal to institutions</td>
<td>Traditional, instructor-led, reading, homework</td>
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<td>&quot;) teach me&quot;</td>
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<tr>
<td>”Boomers”</td>
<td>1946-1964 (46-64 years old)</td>
<td>Idealistic, competitive, striving to achieve</td>
<td>Traditional, group effort, expert-driven, self-driven</td>
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<td>”lead me to information”</td>
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<tr>
<td>Generation X</td>
<td>1965-1980 (30-45 years old)</td>
<td>Self-reliant, willing to change rules</td>
<td>Team-driven, collaborative, &quot;wisdom of crowds&quot;, peer-to-peer</td>
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<td>&quot;) Connect me to people”</td>
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<tr>
<td>Millenials</td>
<td>1980-2000 (10-30 years old)</td>
<td>Confident, impatient, socially conscious, technology savvy</td>
<td>Give context and meaning, make it fun, search and explore, entertain me</td>
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<td>” Connect me to everything”</td>
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E-Learning

- Tanker Vetting (online & offline)
- Tank Cleaning (offline)
- Entry into Enclosed Spaces (2013)

..and more in the pipeline
Distance Learning

What is it really?
Distance Learning

- The instructor is in one place & the students in another
- The Curriculum is the same as for the traditional course
- The cost is significantly lower
Distance Learning - Courses offered

- Tanker Vetting
- Commercial Tanker Operations
- ISPS Awareness
- Dangerous goods
- Mooring
- Vessel Technology
- Incident Investigation Analysis
- Danish Maritime Legislation for non-Danish Masters
- Brush-up courses on a variety of subjects
Distance Learning - What is required?

- A broadband connection
- A camera
- A microphone
- Some simple to use software
- & you’re in business
Recent examples

✓ A Chief Officer in Tokyo (4-hour course)
✓ A group of officers in Mumbai (4-hour course)
✓ A mate in Australia (2-day course!)

Imagine the cost saving in these scenarios!
Thank you!

Q & A