New Technologies and Global Marine Trends 2030

Purpose: Information
Submitted by: Kuwait
New Technologies and Global Marine Trends 2030

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- Our life relies on digital products much more than in previous decades.
- The technology development emerges, and touches everyone (individuals, consumers, ship owners, and operators, regulators, policymakers).
- Short period of time required for transiting new developments into mature technologies.
Lloyd’s Register, reported in Global Marine Trends 2030 (GMT 2030) the extensive technology revolution, how it will play out differently in commercial shipping, naval, and ocean space sectors.

After examining more than 56 critical technologies that might be developed and implemented in 2030 and selected 18 technologies for further studies.
The interrelationship between technologies and sectors

Commercial Shipping in 2030 will have a significant impact on vessel system design and vessel operations.
Seafarers Required Skills

✓ A basic understanding of computers.
✓ Understandings of hardware and software.
✓ Intermediate to advanced computer skills.
✓ Significant skills (e.g. interacting with robotics like fire fighting robotics).
✓ Understanding of smart ships new technologies and operating procedures.
✓ Technical skills:
  o Wireless communications like electromagnetic waves, high order modulation, and pulse shaping.
  o Wireless sensor technology and the new generation of micro- and nano mechanical sensors for monitoring data.

Asia-Pacific Economic Cooperation
The COVID-19 pandemic has brought unprecedented changes in the way we are doing business and redefining the concept of “DISTANCE”.

Digitalization is gaining fast ground, the determination in the implementation will overcome the challenges.

New Guidelines for issuing or revalidation of seafarers Certificate of Competency.
Thank you!