babcock

Operationalising the Whole Force Approach

Mark Graves, Managing Director, Marine Training, Babcock

Marine overview what we do



- > Warship deep maintenance 75% of fleet
- > Warship fleet time support
- > Design, build, assembly and support of QEC
- > Support and upgrade of future platforms
- > Supply and integration of OEM technology
- > Royal Navy training



- > 100% Canadian submarine refits
- > Australian ship and submarine support
- > US-UK Common Missile Compartments
- > New Zealand and Oman dockyards
- > Weapons handling and launch technology



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Consultancy

- Owned intellectual property in complex energy and marine systems
- > Through-life support of complex assets
- > Marine engineering and platform design
- Advanced manufacturing

Technology products and solutions into all markets



Digitally enabled marine support solutions



Marine

Engineering and technical innovation

Land





Operationalising the Whole Force Approach

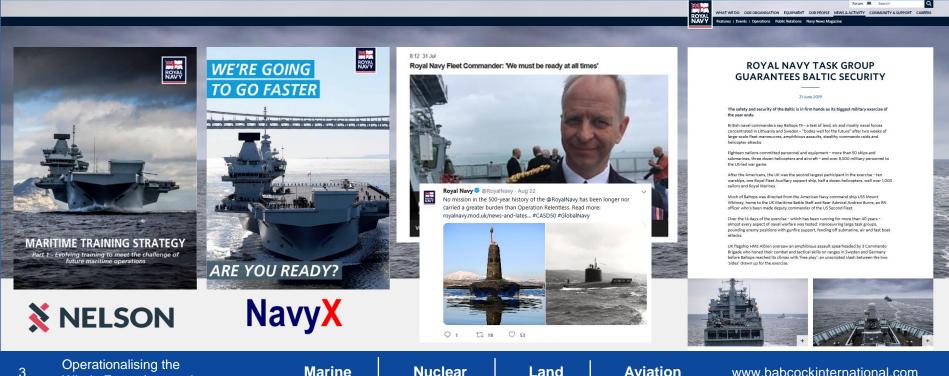
Nuclear

Aviation

Whole Force Approach

"To improve is to change; to be perfect is to change often"



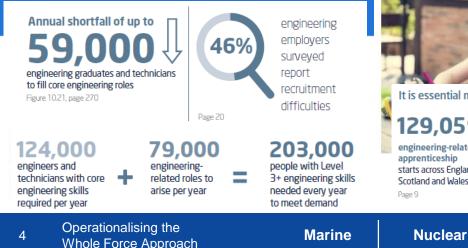




Industry is facing challenges too

nr randstad job seeker employers about us career advice

uk engineering facing skills crisis: where are the jobs?



♠ > Education > STEM Awards 2019 > Energy | Telegraph STEM Awards 2017 The great UK engineering shortage: 1.8 million are needed by 2025



It is essential more young people - particularly girls - study STEM

129,059

engineering-related apprenticeship starts across England, Scotland and Wales

37,335 first year engineering and technology undergraduates in the UK

Figure 6.10, page 145

Land

10% decrease GCSE entries for biology, chemistry and physics between 2012 and 2017

Aviation

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Engineering: Take a Closer... Cenaineeringaa



Did you know there is a 20,000 annual shortage of

engineering graduates in the UK? Join the Year of Engineering @YoEgovuk 2018 to help share the great opportunities engineering has to offer bit.lv/2rK1mpA





Skills shortages and the leaky engineering pipeline



The Whole force approach – now



Operationalising the Whole Force Approach

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Marine

Nuclear

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The Whole force approach – future



6

Marine

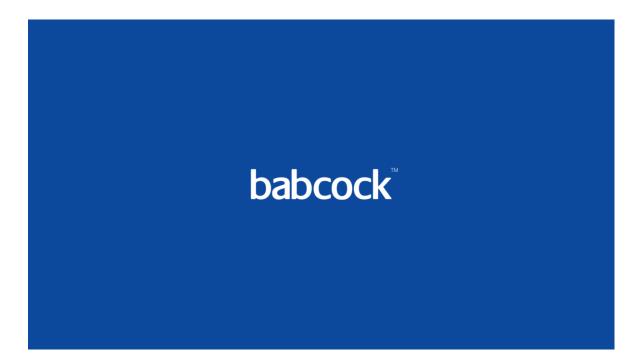
Nuclear

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Aviation







Operationalising the Whole Force Approach

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Aviation



Autonomy in Military Training



Nuclear

Land

Aviation

Dynamic and Adaptable Training

Marine



Whole Force Approach

Mapping Contraction of the second sec

Marine

Nuclear

Land

Aviation