



Platform Enabled Training Capability (PETC)

Case study

Summary/Brief

The PETC is part of the wider Defence Operational Training Capability Maritime (DOTCM) program which aims to enable ships crews to train together straight from their own operations rooms. This could be alongside crews worldwide or whilst actually at sea. The navy proposed PETC as part of the overall DOTCM program and they briefed us on what they wanted to achieve.

Our Solution

QinetiQ are working with the navy on how to strategically use synthetic environments in their training. The navy appreciated the way that they could use the Test & Evaluation capabilities that QinetiQ had developed, and how we already inject synthetic scenarios into the combat systems of ships. This, in turn, creates an underpinning enabler that allows them to move faster towards developing the capabilities that they need to carry out effective training. We are working with them on demonstrating exactly how this can be done and the benefits it achieves.

We quickly proved that many of the enablers that they wanted already exist. By identifying these enablers, it allowed us to progress forwards much faster and the teams didn't expect to have an on ship demonstrator this year. As we had the enablers, and with the training understanding brought by Inzpire, we have managed to accelerate massively their progress towards demonstrating that these capabilities they wanted can be delivered.

We were also able to deliver a comprehensive debrief as part of the training which is something the customer was very keen on understanding.

Outcomes/Benefits

The technology used is a software bridge between the synthetic environment and what the combat system sees which replaces the sensors on board the platform and replicates what they do in reality.

The customer was able to demonstrate that PETC is a true training capability and that technology and the Whiteforce combined creates a better training environment than they currently have. Training using an on board platform enables the customer to understand the best way to accelerate the DOTCM program to end up with efficient delivery of capabilities.

The customer has also been able to implement step changes. The main one being that historically, crews are taken away from the ship and into a synthetic environment (Maritime Composite Training System). Instead of leaving the ship to attend Gosport or Plymouth, where the training environment isn't as realistic as the operations room, they can train from wherever they are situated. Additionally, if crew are abroad you can rehearse for specific missions, or if crews are re-tasked, with PETC you can train whilst transiting. This makes for effective use of a ships time as no rehearsal will be needed on arrival. Crews can also mission rehearse for very specific and difficult situations that could arise.

The customer also benefits from the knowledge that all training objectives will be met during the session as the scenarios are carefully planned and controlled to include all hazards and dangers which crews may face and need to manoeuvre through.

QinetiQ UK

Cody Technology Park
Ively Road, Farnborough
Hampshire, GU14 0LX
United Kingdom
+44 (0)1252 392000
www.QinetiQ.com