

International Marine Contractors Association

Improving performance in the marine contracting industry

Development of the IMCA Diving Supervisor CPD App

Peter Sieniewicz

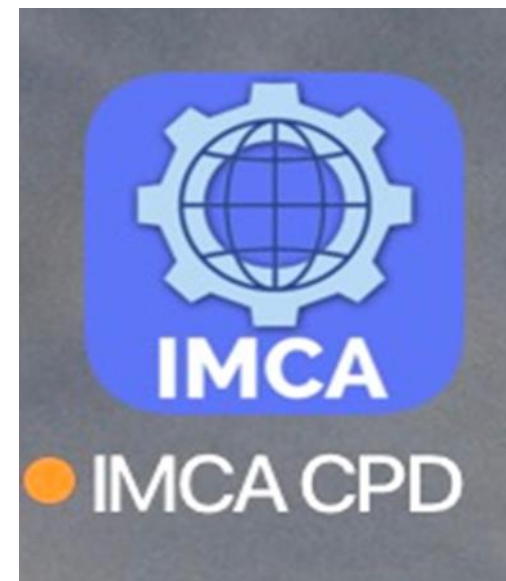
NUI, Bergen

November 2019



Pedagogical Considerations

Factors to Consider



Key considerations of the solution



SIMPLE



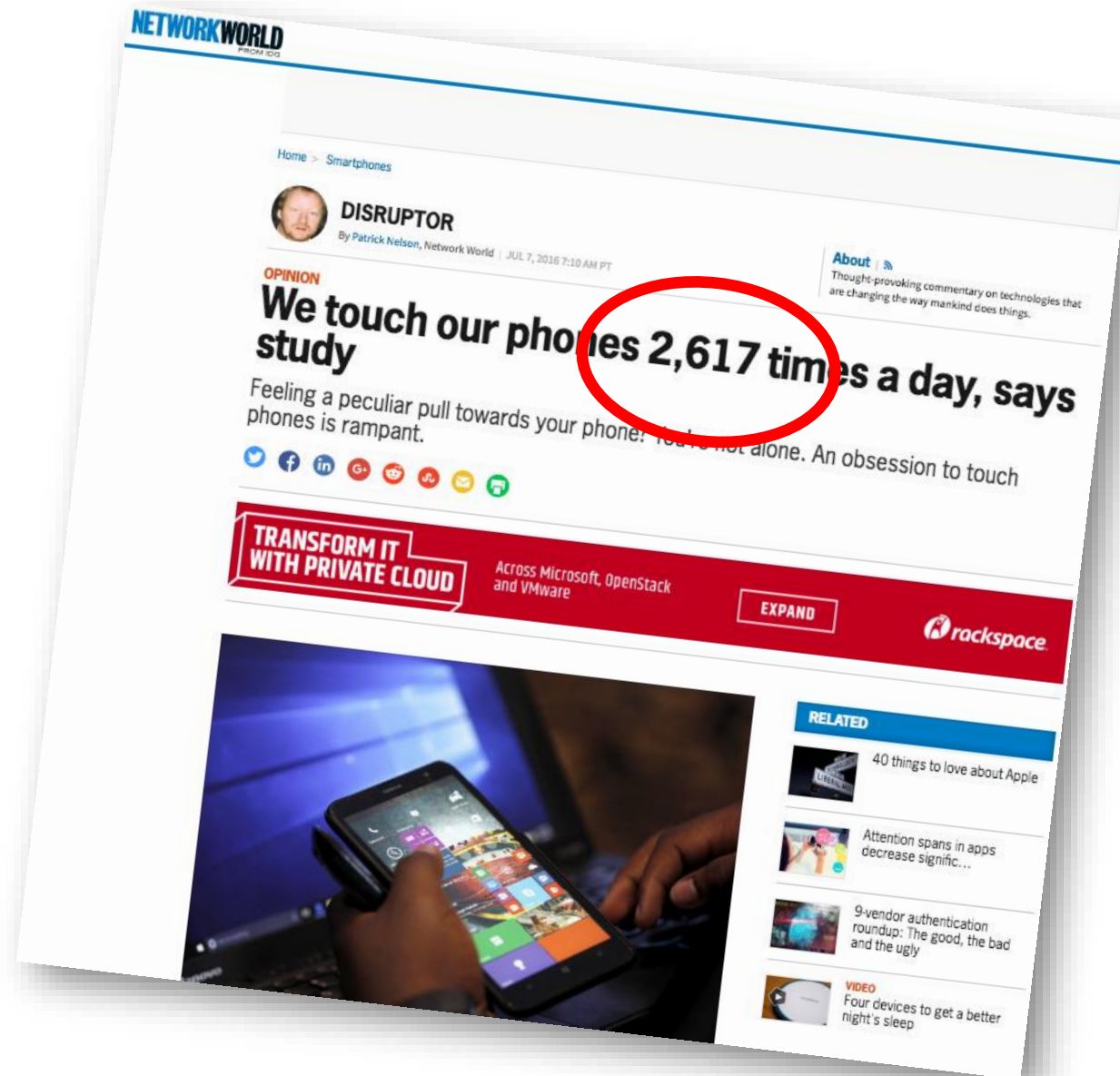
SCALABLE



SUSTAINABLE

Pedagogy drives the technology

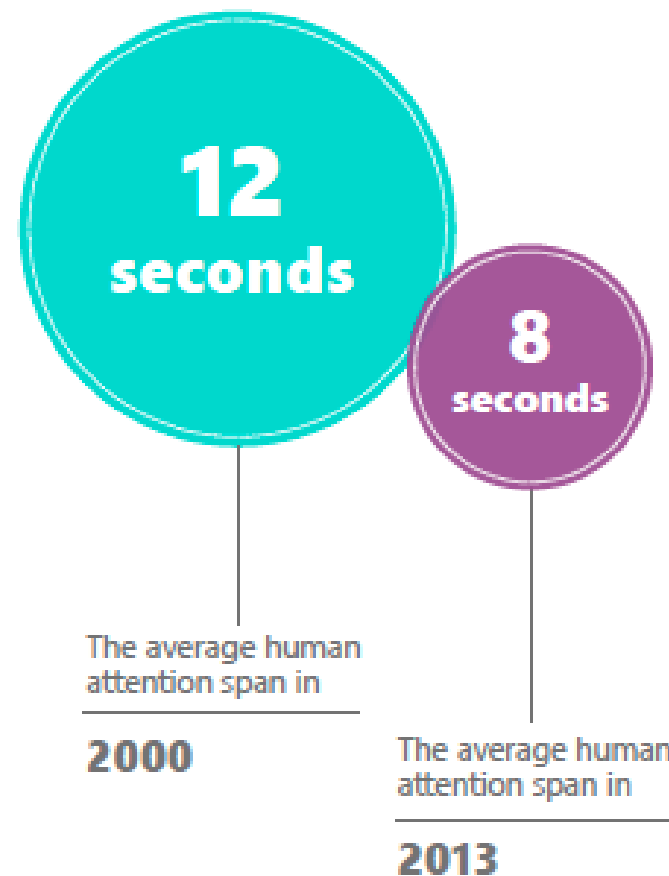
Some touchy numbers...



*"the heaviest smartphone users click, tap or swipe on their phone **5,427** times a day"*



We know human attention
is dwindling



The **guppy** has an **attention span** of 15 seconds “Rooftop Leader - 2018”
That is almost twice the attention span of the average human today!



Why develop an update requirement for
IMCA Diving Supervisors?

IMCA's Mission is:

To improve performance in the marine contracting industry

Why?

- The introduction of the CPD scheme for IMCA Diving Supervisors will enable IMCA and the offshore marine contracting industry to demonstrate that it is maintaining and updating the knowledge base of its safety critical personnel.
- The App will enable IMCA Diving Supervisors to demonstrate that they participate in a credible and effective industry accepted CPD programme that refreshes their knowledge and keeps them up-to-date with industry events and current guidelines.
- For the first time, IMCA will be able to identify all its currently active diving supervisors and be able to contact them, should the need arise, on issues of importance.
- Supervisor's for the first time will be kept up to date with the latest changes to IMCA guidance and with current safety critical information.

Why?



- The IMCA Diving Supervisor CPD App will be a user friendly and enjoyable way of keeping one's knowledge updated.
- The scheme will only be available to qualified IMCA Diving Supervisors as well as to qualified Diving Supervisors from the Australian Diver Accreditation Scheme (ADAS) and the Diver Certification Board of Canada (DCBC).
- The programme will help reinforce the standing of IMCA Diving Supervisor qualifications throughout the industry.
- Supervisor will now be able to speak directly to IMCA via the APP.
- For Diving Supervisors this is an opportunity, not a threat.
- This is not a replacement for the contractor's own competency scheme but an addition to it.



Time Scale



- Early 2020 the APP will go live and become available to ALL IMCA Diving Supervisors
- Diving contractors should encourage their Diving Supervisors to begin participating in the scheme from the outset i.e. from early 2020 when it is “voluntary”.
- In 2021 the App will become the only industry accepted means of maintaining currency as an IMCA Diving Supervisor.
- From 2022 IMCA will publish a list of “current” IMCA Diving Supervisors on its website. To appear on the list a Supervisor must have completed all Units of the App for the previous year.
- From 2022 onwards contractors and client should only use “current” Diving Supervisors i.e. they must be participants in the scheme.





The CPD Contents Model



Content Model



- Each year to be made up of 4 Units, one roughly per quarter.
- Each Unit to comprise of 6 or 7 Knowledge Development Areas (Modules).
- Ie. 1/2 Core/Common Module/s; 4 ADS Modules; and 1 BDS Module.
- Air Diving Supervisors will therefore have to complete 5/6 Modules per quarter.
- Bell Diving Supervisors will have to complete 6/7 Modules per quarter.
- A Module should take about 25 minutes to complete, so just over two hours a quarter for an air supervisor and about 2.5 hours a quarter for a bell supervisor.
- It can be delivered on variety of platforms including; IOS and Android platforms and can be run on either a phone, tablet or PC
- The content can be down loaded and worked on “offline”
- Or about 8 to 10 hours per annum.

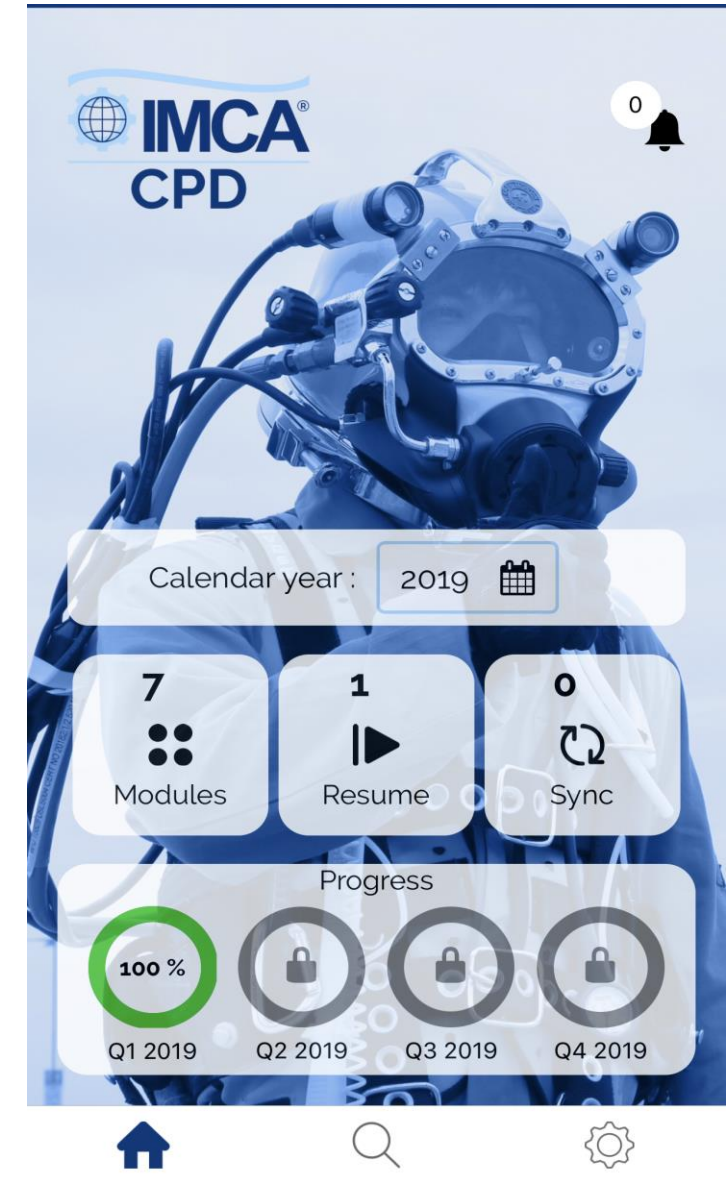
Content Model

- It can be delivered on variety of platforms including; Apple, Android, or a phone tablet or PC
- The content can be down loaded and worked on “offline”
- Or about 8 to 10 hours per annum
- Candidates and the contractors can monitor, if permitted, the candidates progress
- A certificate is generated upon completion with a QR Code available to the candidates to be used for verification.

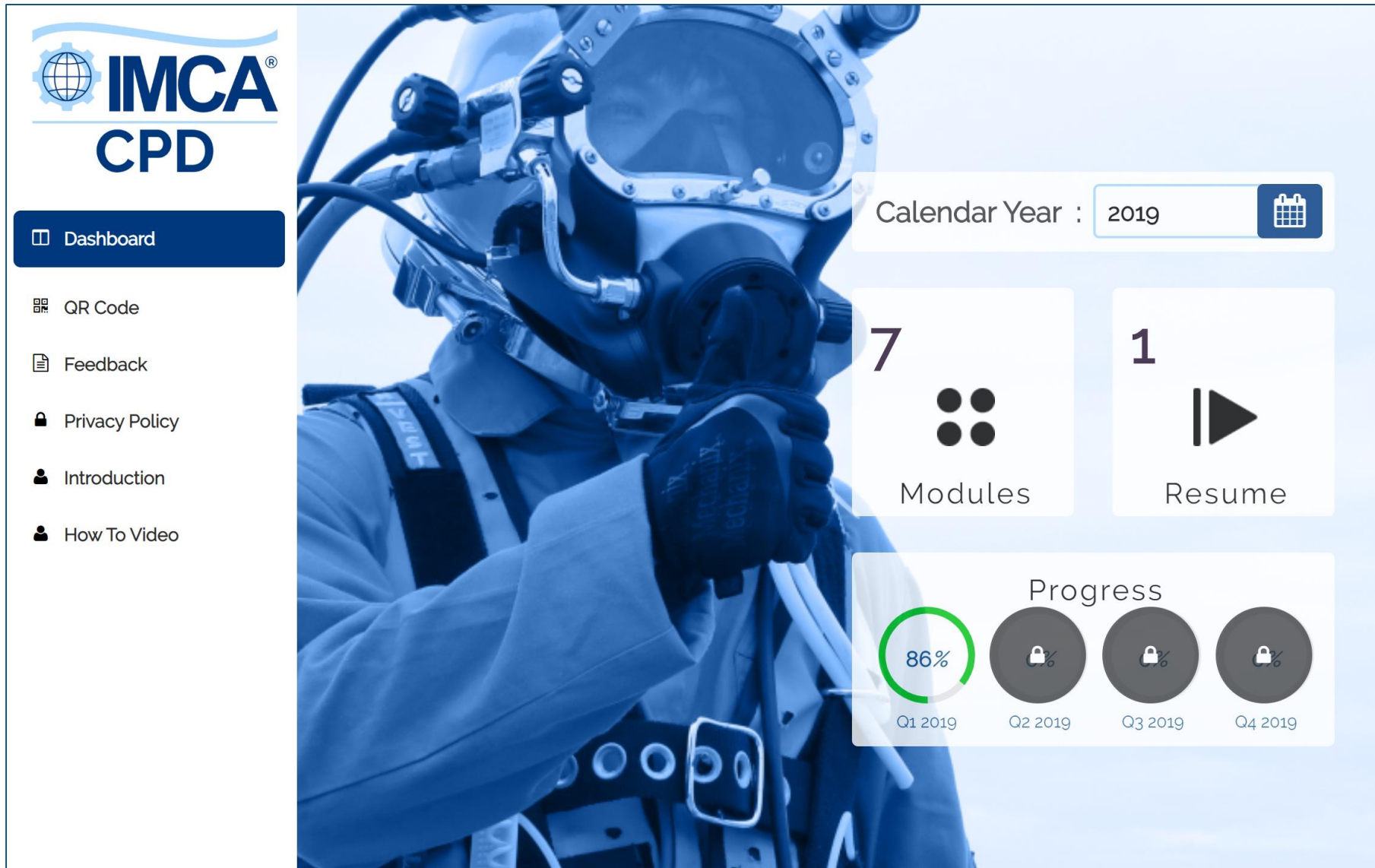
Supervisors CPD App



- Contract for development of the first 2 Units has been signed and Unit 1 and 2 is now being tested by volunteer Diving Supervisors around the world.



Let's have a proper look at it..



The dashboard features a sidebar on the left with the IMCA CPD logo and navigation links: Dashboard, QR Code, Feedback, Privacy Policy, Introduction, and How To Video. The main content area includes a 'Calendar Year' selector set to 2019, a 'Modules' section showing 7 modules, a 'Resume' button, and a 'Progress' section with a circular progress indicator at 86% and four locked icons for Q1 2019, Q2 2019, Q3 2019, and Q4 2019. The background of the dashboard is a blue-tinted image of a diver in a full protective suit.

IMCA[®] CPD

[Dashboard](#)

- [QR Code](#)
- [Feedback](#)
- [Privacy Policy](#)
- [Introduction](#)
- [How To Video](#)

Calendar Year : 2019

7 Modules

1 Resume

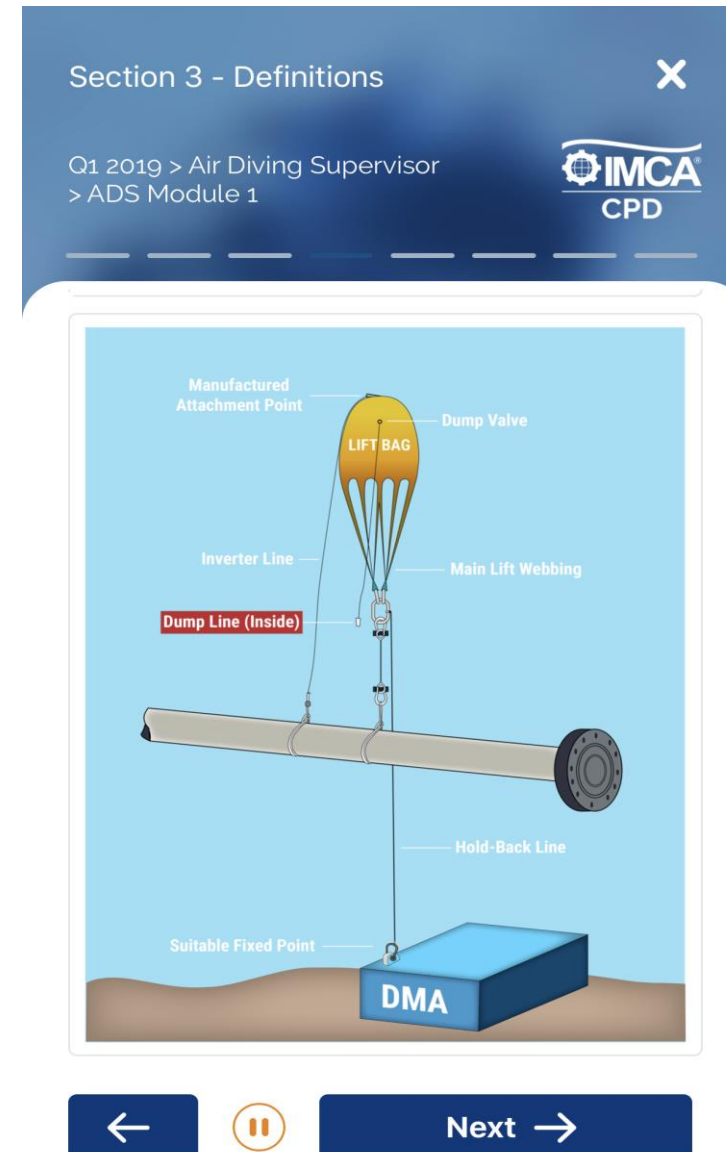
Progress

86%

Q1 2019 Q2 2019 Q3 2019 Q4 2019

Material to be used in the APP


- Text
- IMCA Guidance
- Safety Flashes
- Information notes
- Illustrations
- Video Animation
- Real life video
- Personal interviews
- Photographs
- Questions



Knowledge development examples

Section 5.2.5 – Surface Supplied Diving Minimum Team Sizes


Q1 2019 > Air Diving Supervisor > ADS Module 4



Section 5.2.5 – Surface Supplied Diving Minimum Team Sizes

The following pictures provide the outline make up of a minimum dive team size for Surface Supplied Air Diving and Surface Supplied Mix as Diving.

AIR & NITROX DIVING



Minimum team size is 5

SURFACE SUPPLIED MIXED GAS DIVING


←

⏸

Next →

Questions

Q1 2019 > Air Diving Supervisor > ADS Module 1



Questions

Instructions:

Answer all the questions correctly to obtain the completion tick for this module. If not, you can always return and attempt to answer them again.

1. The inverter line function is:

- ☐ a. To hold the load back, if the rigging fails
- ☐ b. For the diver to vent air from the bag
- ☐ c. To up-end the bag and dump the gas from the bag if the rigging fails
- ☐ d. To reduce the shock load on the rigging

2. If a manufactured attachment point for an


←

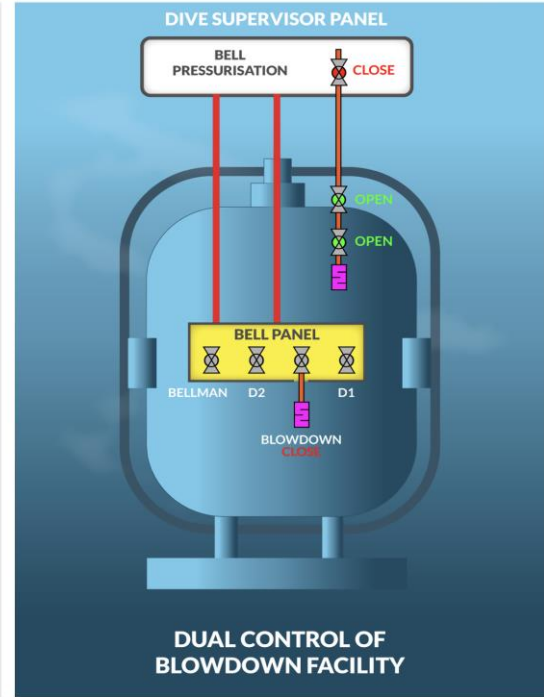
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Finish

Control of Bell Blow-Down Facility

Q1 2019 > Bell Diving Supervisor > BDS Module 1





DUAL CONTROL OF BLOWDOWN FACILITY

←

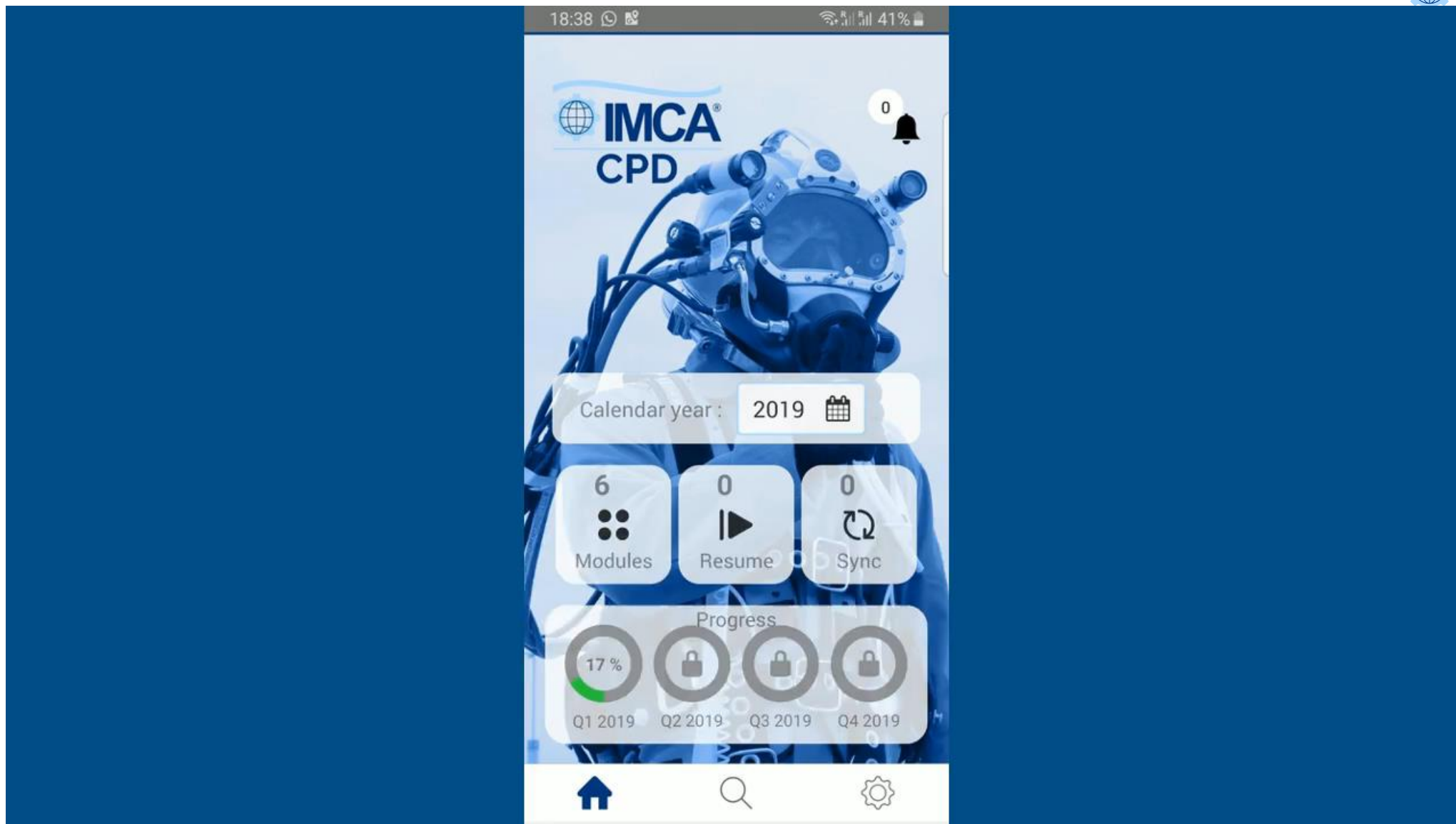
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Now lets look at the CPD APP for real







Summary

Summary

- The App will enable IMCA Diving Supervisors to demonstrate that they participate in a credible and effective industry accepted CPD programme that refreshes their knowledge and keeps them up-to-date with industry events and current guidelines.
- Supervisor's for the first time will be kept up to date with the latest changes to IMCA guidance and with current safety critical information.
- In 2021 the App will become the only industry accepted means of maintaining currency as an IMCA Diving Supervisor.
- From 2022 IMCA will publish a list of "current" IMCA Diving Supervisors on its website. To appear on the list a Supervisor must have completed all Units of the App for the previous year.
- Lastly we have tried to make the APP, fun, engaging, informative and easy to use.

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marine contracting industry

