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**OXFORD CAMBRIDGE AND RSA  
EXAMINATIONS**

**Monday 13 June 2022 – Afternoon**

**Level 3 Cambridge Technical in  
Applied Science**

**05874**

**Unit 22: Global scientific information**

**INSERT**

**INSTRUCTIONS**

**Do not send this Insert for marking. Keep it  
in the centre or recycle it.**

## **PRE-RELEASE RESEARCH BRIEF**

**You should carry out your own research on the themes given in this research brief. Your research will help you to prepare for your examination.**

**Your research is only for your own use. You must not bring your notes into the examination. A clean copy of this research brief will be provided in the examination.**

**In your research you should consider these themes:**

**categories of information holder**

**locations of scientific information**

**impacts on stakeholders**

**reasons for transmission of scientific information**

**similarities in global information**

**protection legislation and regulation**

**terminology in quality management of scientific information**

**legislation relating to the use of information.**

**The questions in Section A of the examination will require you to draw on the knowledge and understanding which you have gained while researching these themes.**

**Instructions:**

**Read the following seven pages of information.**

**Carry out your own research on the themes given on page 2.**

## **A MESSAGE FROM ISHRIG FOODS**

**For 25 years, the fictional company, Ishrig Foods has been sourcing high quality fish and shellfish from sustainable fisheries all over the world. Today we buy more than 85% of our eco-labelled seafood from certified sources. We are proud to display the ecolabel of the Marine Stewardship Council (MSC) [1] on many of our products.**



**Many more consumers are selecting these eco-labelled products because they want to support responsible and sustainable fishing. We fully support the MSC mission:**

**“to use [an] eco-label and fishery certification programme to contribute to the health of the world’s oceans by recognising and rewarding sustainable fishing practices, influencing the choices people make when buying seafood and working with partners to transform the seafood market to a sustainable basis”.**

**At Ishrig Foods we are working collaboratively with many stakeholders throughout the supply chain. We are supporting fisheries and fish farms to transform and adapt more sustainable practices so that they can achieve and maintain the necessary standards for MSC certification [2]. Our aim is to have 100% of our fish and shellfish come from MSC certified-sources by 2026.**

**One of the major threats to fisheries is illegal, unreported and unregulated fishing (IUU). The United Nations Sustainable Development Goal 14 Life Below Water [3] says:**

**“Ending IUU fisheries will contribute to sustainable management and efficient use of natural resources and reducing food waste...eradicating IUU fisheries has a direct link to stabilising and increasing productivity, profitability, and net economic benefits from fisheries and to reducing poverty.”**

**The MSC certification guide adopts the United Nations Food and Agriculture Organization (FAO) definition of IUU [4].**

**The FAO plan of action to eliminate IUU includes the Agreement on Port State Measures (PSMA) [5]. This is a binding international agreement that targets IUU fishing. Its objective is to prevent, deter and eliminate IUU fishing by preventing vessels engaged in IUU fishing from using ports and landing their catches. Ports that meet the requirements of PSMA fulfil some of the criteria for MSC certification. Implementation of PSMA will require countries to complete a questionnaire to assess their current level of organisation [6]. For example, the**

**questionnaire determines the arrangements for transmitting the results of the inspections of fishing vessels (section 14) and electronic exchange of information (section 15).**

**The FAO plan of action affects large and small fishing vessels as well as different types and size of fish [7].**

**A critical technical component of the PSMA is a global information exchange system [8] [9]. This information system that is to be developed aims to:**

**include a publicly available information section**

**include a limited access section for protected information such as port inspection reports**

**facilitate the near real-time exchange of information; and**

**link with the relevant systems of Regional Fisheries Management Organisations and the global systems such as IMO's GISIS and Equasis and the Global Record information exchange system.**

**Those individuals and organisations who sign up to the PSMA will be required to compile information on:**

**decisions taken regarding foreign vessels seeking entry into their ports; and  
results of inspections of foreign vessels in their ports.**

**They will also need to be able to access this compiled information in near real-time, to make informed decisions about:**

**whether to allow foreign vessels to enter their ports; and**

**whether to inspect these vessels.**

**They will make these decisions based on the compiled past compliance history information on vessels in the system [10].**

**The global fishing industry is worth over a hundred billion USD annually and supports over 200 million jobs. A growing world population means that we need to transform the way we produce and consume food as demand increases. Protein from seafood is a nutritious and**



**sustainable choice provided it comes from well-managed and certified sources. At Ishrig we are aware of our responsibilities to do our part to accelerate the change toward achieving Sustainable Development Goal 14 and secure the future of our oceans.**

- 1 Marine Stewardship Council (MSC)  
<<https://www.msc.org/uk>> and MSC Seafood Futures Forum (2019) and  
<[https://www.youtube.com/watch?v=J27\\_yzhbWu8](https://www.youtube.com/watch?v=J27_yzhbWu8)>**
- 2 MSC Fisheries Standard and Guidance v2.01pdf <<https://www.msc.org/for-business/certification-bodies/fisheries-standard-program-documents>>**
- 3 Sustainable Development Goal 14  
<<https://sdgcompass.org/sdgs/sdg-14/>>**
- 4 Implementation of the International Plan of Action to Deter, Prevent and Eliminate Illegal, Unreported and Unregulated Fishing <<https://www.fao.org/3/Y3536e/Y3536e.pdf>>**
- 5 FAO Agreement on Port State Measures  
<<https://www.fao.org/3/i5469t/I5469T.pdf>>**

- 6 Questionnaire <<https://www.fao.org/3/ca4505en/ca4505en.pdf>>
- 7 <<https://www.fao.org/global-record/tool/extended-search/en/>>
- 8 Global Information Exchange System <<http://www.fao.org/global-record/tool/extended-search/en/>>
- 9 Report of the Open-ended Technical Working Group on Information Exchange <<https://www.fao.org/3/CA0287EN/ca0287en.pdf>>
- 10 Developing an information exchange mechanism to support the implementation of the Agreement on Port State Measures <[https://www.youtube.com/watch?v=n1PiKlzuw\\_k](https://www.youtube.com/watch?v=n1PiKlzuw_k)>

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