

# Concorso 2022\_367.251 – CTER ISMAR RM

## Prova Orale 1

Il candidato descriva sinteticamente la progettazione e la messa in operazioni di un sistema storage massivo (>1Pb).

(Max 20 min di tempo)

Il candidato presenti e discuta una esperienza indicate nel curriculum o sui rapporti tecnico/gestionali o pubblicazioni o brevetti presentati a sua scelta.

(Max 5 min di tempo)

## Valutazione conoscenza lingua inglese

Il candidato legga e traduca il seguente brano tratto da un documento tecnico (Statement of Work - 07\_EN\_SOW\_21034\_COP\_MDS OPR.pdf):

(pag 26 – 122 parole)

Copernicus Marine Service delivery is based on a distributed architecture of Production Centres (PCs) responsible for thematic observation areas for the TACs and model-based geographical areas for the MFCs. However, users interact with a fully integrated system through a unique interface and standard protocols supported by the Copernicus Marine Service network of PCs. All automated system elements are interconnected through the service chain and embedded into the overall system to contribute to unique service delivery. Similarly, all human processes needed to deliver the service to users are based on a centrally coordinated network of organisations and operational teams. From a user point of view, the Marine Information System (MIS) and the Central Service Desk (CSD) respectively integrate system elements and human processes.

(Max 5 min di tempo)

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## Prova Orale 2

Il candidato descriva sinteticamente la progettazione e la messa in operazioni di un sistema HPC.

(Max 20 min di tempo)

Il candidato presenti e discuta una esperienza indicate nel curriculum o sui rapporti tecnico/gestionali o pubblicazioni o brevetti presentati a sua scelta.

(Max 5 min di tempo)

## Valutazione conoscenza lingua inglese

Il candidato legga e traduca il seguente brano tratto da un documento tecnico (Statement of Work - 07\_EN\_SOW\_21034\_COP\_MDS OPR.pdf):

(pag 27 – 123 parole)

The Copernicus Marine Service is an operational service which evolves continuously to include improvements either required by users or corresponding to evolution of the state of the art. These two drivers are indeed complementary as users expect the best service in order to develop further their own applications or usages.

This continuous improvement approach is then applicable to any of the Copernicus Marine Service elements, i.e. TACs, MFCs and the MIS. Therefore, new versions or evolutions of this service are prepared while the former version of this service is operating. According to the general methodology of activity planning through Annual Implementation Plans (see below), the major changes are defined, designed and released in a special process common to all Copernicus Marine Service elements.

(Max 5 min di tempo)

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## Prova Orale 3

Il candidato descriva sinteticamente la progettazione e la messa in operazioni di un sistema cloud privato.

(Max 20 min di tempo)

Il candidato presenti e discuta una esperienza indicate nel curriculum o sui rapporti tecnico/gestionali o pubblicazioni o brevetti presentati a sua scelta.

(Max 5 min di tempo)

## Valutazione conoscenza lingua inglese

Il candidato legga e traduca il seguente brano tratto da un documento tecnico (Statement of Work - 07\_EN\_SOW\_21034\_COP\_MDS OPR.pdf):

(pag 25 – 128 parole)

### An integrated Service

As perceived by users, the Copernicus Marine Service is a one-stop-shop service for all products that are made available to users, for any of their applications. This core service is provided through a single, standard interface giving access to all products and information produced by the Copernicus Marine Service elements and presented in a unified catalogue. This notion of unique integrated service is one of the main principles of the Copernicus Marine Service.

Products and access services are delivered to users in compliance with regulations and standards applicable to product content, associated information (metadata) and documentation, such as INSPIRE Directive. Users are given access to all products and information through unified, INSPIRE-compliant interfaces, independently of geographical areas, temporal periods, or the ocean variables of interest.

(Max 5 min di tempo)

## Prova Orale 4

Il candidato descriva sinteticamente la progettazione e la messa in operazioni di un catalogo dati geospaziali distribuito ed interoperante.

(Max 20 min di tempo)

Il candidato presenti e discuta una esperienza indicate nel curriculum o sui rapporti tecnico/gestionali o pubblicazioni o brevetti presentati a sua scelta.

(Max 5 min di tempo)

## Valutazione conoscenza lingua inglese

Il candidato legga e traduca il seguente brano tratto da un documento tecnico (Statement of Work - 07\_EN\_SOW\_21034\_COP\_MDS OPR.pdf):

(pag 17 – 126 parole)

The Copernicus Marine Service provides operational, regular, and systematic reference information on the physical (blue) and biogeochemical (green) ocean and sea-ice (white) state for the global ocean and the European regional seas. This capacity encompasses the description of the current situation (analysis), the prediction of the situation 10 days ahead (forecast), and the provision of consistent retrospective data records (reprocessing (in situ and satellite) and reanalysis). More than thirty thousand expert downstream services and users are connected to the service that responds to public and private user needs and policies related to all marine and maritime sectors: maritime safety, coastal environment monitoring, trade and marine navigation, fishery, aquaculture, marine renewable energy, marine conservation and biodiversity, ocean health, climate and climate adaptation, recreation, education, science and innovation.

(Max 5 min di tempo)



## Prova Orale 5

Il candidato descriva sinteticamente la progettazione e la messa in operazioni di un datacenter.

(Max 20 min di tempo)

Il candidato presenti e discuta una esperienza indicate nel curriculum o sui rapporti tecnico/gestionali o pubblicazioni o brevetti presentati a sua scelta.

(Max 5 min di tempo)

## Valutazione conoscenza lingua inglese

Il candidato legga e traduca il seguente brano tratto da un documento tecnico (Statement of Work - 07\_EN\_SOW\_21034\_COP\_MDS OPR.pdf):

(pag 24 – 136 parole)

The Copernicus Marine Service is an operational service delivering products and information continuously to users.

The service not only delivers products but also provides functions for acquiring information, discovering and visualizing, asking questions, sending queries and ultimately interacting with the overall system. Service continuity and operational performance requirements are defined for the overall Copernicus Marine Service in accordance with user needs and are consequently allocated to each of the Copernicus Marine Service operational sub systems depending on their scope and criticality. Indeed, the Copernicus Marine Service is delivered based on a network of individual operational components, each contributing either to data production or user interaction functions such as downloading or visualizing. Apart from operational functions provided to users, the concept of a network of operations is extended to all human processes needed to deliver the service.

(Max 5 min di tempo)