

D 4.4.1 - TRAINING MATERIAL FOR DIVING GUIDES

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Training for diving guides in Salento, Puglia

A total of 100 hours training course has been planned and carried out in the province of Brindisi, in the province of Lecce and in Porto Cesareo MPA (Lecce), aimed at 20 young people, mostly women, under 35, to make them archaeological-naturalistic diving guides, including also the achievement of diving license.

The course was articulated in the subsequent modules:

1. The invisible inheritance. The coastal and submerged heritage of the Puglia Region: the state of the art and information systems (16 hours total):
 - *Nel mare dell'intimità. L'archeologia subacquea racconta il Salento (2 hours)*
 - *Paesaggi costieri e subacquei di Puglia in età protostorica (6 hours)*
 - *Paesaggi costieri e subacquei di Puglia in età preromana e romana (6 hours)*
 - *Paesaggi costieri e subacquei di Puglia in età medievale (2 hours)*
2. The invisible inheritance. The coastal and submerged heritage and the prospects for enhancement. The UnderwaterMuse projects, Puglia Seascapes, FISH & C.h.i.p.s., the ESAC Center. The invisible heritage chain and the actors (26 hours total):
 - *Puglia. Un mare di risorse. I progetti internazionali, il Centro ESAC. La filiera del patrimonio sommerso e gli attori (4 hours)*

- *Il patrimonio costiero e sommerso e la valorizzazione. Taranto, la cultura del mare e il progetto Fish&Chips (2 hours)*
 - *Evento finale UnderwaterMuse: Convegno Stati generali della gestione dal basso del patrimonio subacqueo (20 hours)*
3. The coastal and submerged heritage in the Museums and in the MPAs of Puglia (34 hours total)
- guided tours of:
 - the Ribezzo Museum of Brindisi (4 hours),
 - the Ancient Sea Museum of Nardò and Aquarium Museum of Santa Maria al Bagno (6 hours),
 - the MPA of Porto Cesareo and permanent exhibition of Torre Chianca (10 hours),
 - the Museum of Castro (7 hours),
 - the MPA of Torre Guaceto (7 hours).
4. Making the invisible visible: photogrammetry and 3D modeling techniques (4 hours total):
- *Rendere visibile l'invisibile: tecniche di fotogrammetria e modellazione 3D (4 hours).*
5. Making the invisible visible: underwater photographic and video shooting techniques. The use of the drone and external shots (8 hours total):
- *Cenni di Fotografia Subacquea (2 hour)*
 - *Rendere visibile l'invisibile: tecniche di ripresa subacquea fotografica e video. L'uso del drone e le riprese esterne (3 hours)*
 - *Rendere visibile l'invisibile: tecniche di ripresa subacquea fotografica e video (3 hours)*
6. Telling the invisible heritage: communication and storytelling (3 hours total):
- *Raccontare il patrimonio sommerso: comunicazione e storytelling (3 hours)*
7. Everyone's heritage: the legislation on underwater heritage, the 2001 UNESCO convention, the 2005 Faro Convention, the National Superintendency for Underwater Heritage (4 hours total):
- *La legislazione sul patrimonio sommerso, la convenzione Unesco 2001, la Convenzione di Faro 2005, la Soprintendenza nazionale per il patrimonio subacqueo (4 hours).*

During the lessons were also shown to the participants many videos and graphic documentation related to various underwater archaeological research activities and valorization projects and exhibitions carried out by Puglia Region in collaboration with University of Salento and others public institutions.

Furthermore, field – underwater activities have been carried out: diving prospecting and video-photographic documentation of the submerged sites of the MPA of Porto Cesareo (5 hours in the frame of the UnderwaterMuse Final Event), of the Natural Reserve of the State Le Cesine (Vernole, Lecce) and of the Emperor Hadrian pier in S. Cataldo (Lecce).



**Fig. 1 - Making the invisible visible: underwater photographic and video shooting techniques.
The use of the drone and external shots**

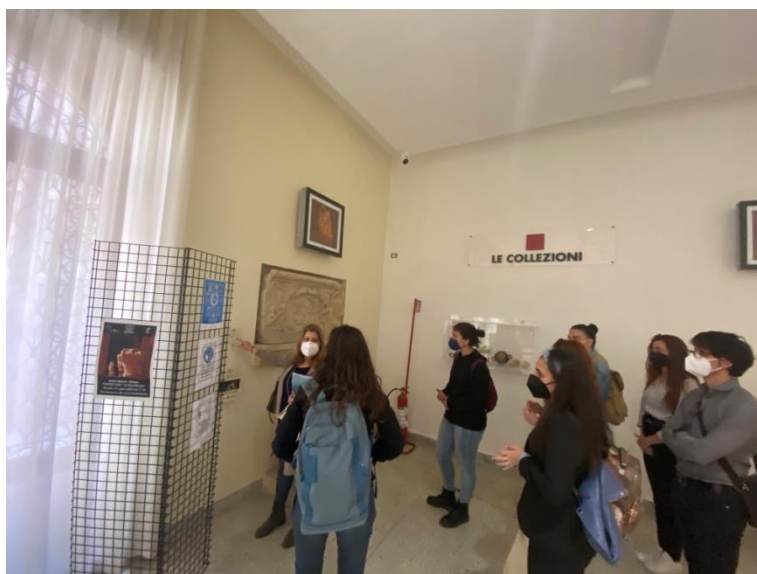


Fig. 2 – Guided tour at the Ribezzo Museum of Brindisi



Fig. 3 – Lesson and guided tour at the Ancient Sea Museum of Nardò



Fig. 4 – Guided tour at the MPA of Porto Cesareo



Fig. 5 – Guided tour at the Museum of Castro

At the end of the training, the participants have developed:

- 1 their own knowledge of the underwater cultural heritage of Puglia Region and in particular of the area of Salento, according to the holistic, contextual and diachronic approach of the coastal and underwater landscapes archeology;
- 2 their own knowledge of the underwater cultural heritage legislation aimed at acquiring adequate skills aimed at solving problems related to professional relationships with the users of the territorial context;
- 3 their capacity to operate in every area relating to underwater cultural heritage to establish relationships of collaboration with organizations, companies and associations that manage the related services;
- 4 their own knowledge of the legal provisions in force regarding the law on underwater cultural heritage, as well as the additional ones for safety at work in the aforementioned area;
- 5 their capacity to acquire and transmit new data on cultural heritage to the competent institutions and to use the national and regional information systems of cultural heritage (Catalogo nazionale dei Beni Culturali – SiGeCweb, Cartapulia, Digital Library);
- 6 their capacity to organize - on the basis of the acquired knowledge - thematic itineraries on the underwater cultural heritage of the Region with heritage communities (citizens, organized, tourist and school groups) and to guide tourists and organized groups on the the regional territory;
- 7 their skills on the communication of underwater cultural heritage (especially on social platforms), on the creation of programs and activities including management of underwater cultural and historical heritage and on the organization of local events for the valorization of the underwater archaeological sites.

Finally, it should also be noted that during the course the participants also obtained a diving licence.



Fig. 6 a,b – Training for the diving licence