

Thames Estuary Partnership

Blue Connections - Training modules

Module	Content	Learning outcome	Skills & Knowledge
Introduction to the Thames Estuary	<ul style="list-style-type: none"> ● Physical processes and chemical characteristics ● Biology ● Ecology ● The Thames through time ● Current state & environmental issues ● Governance & public use ● Future of the Thames 	<ul style="list-style-type: none"> ● Understanding the difference between the River Thames and Thames Estuary/Tidal Thames ● Understanding the tidal movements and tidal cycle ● Understand salinity gradient ● Knowledge of key species ● Knowledge of key habitats ● Understanding the natural history of the Thames ● Knowledge of key stakeholders ● Understanding the future of the Thames in the context of climate change 	<ul style="list-style-type: none"> ● Environmental knowledge ● Environmental awareness ● Sustainability ● Estuarine science ● Aquatic ecology ● Water quality ● Climate change <p>Endorsed by the Institute of Environmental Sciences (IES)</p>
Introduction to MS Office	<ul style="list-style-type: none"> ● Word ● Excel ● PowerPoint 	<ul style="list-style-type: none"> ● Working with fonts, headings, and images ● Working with placeholder text ● Drafting a report ● Working with data (rows and columns) ● Formulas ● Working with pivot tables ● Creating graphs ● Designing and preparing a presentation ● Video recording in presentation mode 	<ul style="list-style-type: none"> ● Creating (editing word) documents ● Preparing documents for print ● Creating spreadsheet ● Creating pivot tables ● Data analysis ● Data visualisation ● Creating presentations ● Communication

<p>Introduction to Data Science</p>	<ul style="list-style-type: none"> ● What is data science? ● Basic statistics ● Installing R and RStudio ● R Studio practical <ul style="list-style-type: none"> ● Introduction to R ● Intermediate R ● Import, download and save data in R ● Data wrangling in R ● Data visualisation in R ● Case study 1 & 2 using global climate and Thames Estuary data 	<ul style="list-style-type: none"> ● Understanding the concept of data science ● Data science roles & tools ● Data science workflow ● Installing R and RStudio ● Working with RStudio ● Working with packages ● Understanding descriptive statistics ● Understanding exploratory data analysis 	<ul style="list-style-type: none"> ● Computing ● R programming language ● Basic statistics ● Working with data ● Data analysis and visualisation ● Communication ● Storytelling ● Analytical and critical thinking ● Project management <p><i>After completing this module, you will be given full free access* to DataCamp where you can further develop your skills.</i></p> <p><i>*(Subject to agreement.)</i></p>
<p>Introduction to Geographic Information System (GIS) Science</p>	<ul style="list-style-type: none"> ● Spatial Thinking and Intelligence ● Cartography ● Geographic Information System ● Coordinate Reference System ● QGIS ● ArcGIS 	<ul style="list-style-type: none"> ● Understanding the concept of spatial thinking ● Map types and design ● Map making process ● Symbology, labelling, working with colours ● GIS data types ● GIS software types ● Geographic coordinate system ● Projected coordinate system ● Creating maps in QGIS ● Overview of ArcGIS products ● Mapping using ArcGIS Online ● Mapping using ArcGIS Pro ● ArcGIS StoryMap making 	<ul style="list-style-type: none"> ● QGIS software use ● ArcGIS products ● Analytical and critical thinking ● Geospatial visualisation ● Project management

<p>Introduction to Communication</p>	<ul style="list-style-type: none"> ● Defining Communication ● Social Media Toolkit ● Adobe Photoshop ● Adobe Illustrator ● Podcast Production ● Science and Society 	<ul style="list-style-type: none"> ● Understanding what communication means and its value ● How we can use social media within a company's strategy ● Learn the basic toolkit for Adobe Photoshop and Illustrator ● Learn the structure of production and postproduction of podcasting including liaising with guests needs and editing conversations ● Understanding how society views science and scientists ● Understanding a range of mediums of science communication and their values 	<ul style="list-style-type: none"> ● Adobe Photoshop and Illustrator skillset ● Knowledge of science communication ● Knowledge of what a company strategy is ● Logic Pro skillset ● Timely correspondence skill set ● Interview skills ● Research skills ● Script writing skills ● Microphone experience ● Remote recording experience ● Podcast creation skills
<p>Field trip and environmental survey</p>	<ul style="list-style-type: none"> ● Participating in fish survey Using intertidal net, seine net and fyke net Fish identification ● Participating in walk and talk around the Greenwich Peninsula ● Participating in boat trip on the Thames 	<ul style="list-style-type: none"> ● Fish survey techniques and identification ● Knowledge of relevant sites along the Greenwich Peninsula ● Knowledge relevant site on the tidal Thames 	<ul style="list-style-type: none"> ● Creating a risk assessment ● Creating a method statement ● Applying for permits ● Liaising with stakeholders ● Fieldwork preparation ● Environmental data collection ● GPS / what3words usage <p><i>Certificate of Completion to be issued by the Institute of Fisheries Management (IFM)</i></p>