

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 Science (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 'tidyverse' package • 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 • Symbolology, 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

Introduction to Communication	<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
Environmental survey	<ul style="list-style-type: none"> ● Fish survey Using seine net and fyke net ● Fish identification 	<ul style="list-style-type: none"> ● Fish survey techniques and identification 	<ul style="list-style-type: none"> ● Creating a risk assessment ● Creating a method statement ● 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>