Big Data Test Infrastructure (BDTI)

interoperable
europe
Academy

Essential course information	
Course Provider.	European Commission (DIGIT B1.001)
Course title. The name you give will be used to identify the course to your learners.	Big Data Test Infrastructure - Enabling a data-informed public sector
Course Topic.	An introduction to BDTI which provides a free of charge cloud-based analytics test environment for Public Administrations in the European Member States to experiment with open-source tools and to prototype solutions.
Course Type.	Online – elearning
Course tags. Add any other tag that suits your course.	Data analytics, data science, machine learning, artificial intelligence, open-source tools, Interoperability, public sector information, European data spaces, European data market, Interoperable Europe Act
Partner Service. Add the Directorate-General/Institution in charge, as well as the Unit.	DG DIGIT, B1.001 - DG CNECT
Related EU Policy. Add the relevant policy. It should be limited to 59 characters max.	Open data directive, European data strategy, Interoperable Europe/AI Act
Course description.	This course provides an introduction to BDTI and aims to help public administrations explore the free of charge data analytics playground offered by the Big Data Test Infrastructure (BDTI).
Target audience.	This course is primarily targeted at national public administrations with responsibility for national and intra-national public services that incorporate large data infrastructure and require the managing of large datasets. CIOs CTOs IT professionals in public administration, Implementers of cross-border digital public services eGovernment project managers Data analysts
Language. Select the desired language for the course.	English
Level. Choose between: Beginner, Intermediate, Proficient, Expert	Novice
Curriculum relevance	Category IOP009: Cross-domain solutions services and tools; Category IOP012: European Data Spaces
Learning Objectives. Introduce a minimum of three learning objectives (what new things the learner is expected to have learned or	Describe the role of public administration and interoperability in the implementation of the European Data Strategy. Name the most important European legal acts, directives and regulations for the European Data Strategy Implementation.

be able to do once the course is completed). It should be limited to 750 characters max.	Describe important cross domain DIGITAL and CEF building blocks that have been used in multiple domains. Locate sources of reusable open-source code and modules for cross-domain building blocks. Understand the BDTI platform offered by the European Commission to EU public administrations. Apply for the programme submitting pilot use cases and start creating value using the BDTI platform offered by the Digital Europe Programme (DEP).
Course start date.	March 2024
Course end date.	None
Dependency. If the course requires completion of another course before enrolment, select the relevant course from the list. If not, select 'no'.	Recommended IOP introductory courses
Course duration. Use the selectors to indicate the course duration in: Weeks, Days, Hours, Minutes	30 minutes
Course banner. Upload the IOP Academy logo provided to you.	Attached to the email – Please note that we agreed to not brand the course with the IOP academy visual identity but using the one from the DEP programme.
Select a course type. How will learners know about your course? Choose one of the options: Hidden (default option), Open and listed Open and unlisted, For restricted audience only.	Open and listed.

Course structure	1. Introduction and course overview
	2. Background and context
	    a. The importance of a data informed public sector
	    b. Regulatory environment: The Open Data Directive, European Data Strategy, Data Governance Act, Data Act
	    c. How it works
	    d. The Benefits of BDTI
	3. The BDTI service offering
	4. Use case scenarios
	    • Data Access and Exploration
	    • Data Cleaning, Blending and Transformation
	    • Basic analytics
	    • External data sources
	    • Geo data transformation and Data visualisation

	5. How to apply for BDTI 6. Tools and resources 7. Knowledge test
Further resources	Open data sources: - Horizon 2020: projects and their results funded by the European Union under the Horizon Europe framework programme for research and innovation from 2021 to 2027. https://data.europa.eu/data/datasets/cordis-eu-research-projects-under-horizon-europe-2021-2027 - Country EU vocabulary: the controlled vocabulary that lists concepts associated with names of countries and territories. https://op.europa.eu/en/web/eu-vocabularies/dataset/-/resource?uri=http://publications.europa.eu/resource/dataset/country - CO2 emissions, CO2 and Greenhouse Gas Emissions dataset, a collection of key metrics maintained by Our World in Data https://github.com/owid/co2-data, - Open API from open data (e.g., open street map, Wikipedia, Wikidata) *https://big-data-test-infrastructure.ec.europa.eu/