GIS Basics

Level: Basic
Duration: ca. 37 h

LESSONS

[Webinaaritallenne: ArcGIS-alustan työvälineiden hyödyntäminen opiskelussa](#)
- - Kesto: 45mins
- - Kuvaus: Miksi ja miten hyödynnät ArcGIS-alustan työvälineitä opiskelussa.
- - Note: this video is only available in Finnish.

[ArcGIS: An Introduction | Esri Training Video](#)
- - Duration: 45mins
- - About: Just about every problem and situation has a location aspect. When we root ourselves in a geospatial mindset, we can understand the context of our decisions and rethink where our actions can have the most impact. ArcGIS is your first step toward better, smarter decision making and a more efficient organization. In this session, the presenters explore the capabilities of ArcGIS, and how they can be used to apply location-based analytics to your business practices. In addition, they discuss how ArcGIS facilitates collaboration via maps, apps, dashboards and reports.

[Understanding the Basics: Essential GIS Workflows | Esri Training Video](#)
- - Duration: 1hr
- - About: Discover how a geographic information system (GIS) helps you explore data in new ways, gain deeper insight, collaborate, and solve problems. The presenters guide you through workflows used by professionals around the world to make an impact at their organization by turning raw data into compelling maps and actionable information that supports smart decisions.

EXERCISES

What is GIS?

[GIS Basics | Esri Training Web Course](#)

- - Duration: 2hrs 30min
- - About: GIS allows people to visualize and analyze data to help solve spatial problems and make smarter decisions. In this course, learn the fundamental components and capabilities of GIS and discover how ArcGIS can help organizations address business needs.
- - Requirements: ArcGIS Pro 2.7, ArcGIS Online

[Introduction to Spatial Data | Esri Training Web Course](#)

- - Duration: 1h 30min
- - About: The foundation of GIS is spatial data—data that includes location information. People use spatial data daily, often without consciously recognizing it as spatial data. In GIS, there are two models that are used to map spatial data: vector features and rasters. In this course, you will learn some of the foundational concepts of spatial data.
- - Requirements: ArcGIS Pro 2.9

[Basics of Geographic Coordinate Systems | Esri Training Web Course](#)

- Duration: 1h 15min
- About: How do you accurately represent the location of features on the earth's surface on paper or a computer screen? In a GIS, the answer starts with a geographic coordinate system. Learn the fundamental concepts of geographic coordinate systems.
- Requirements: ArcGIS Pro 2.9, ArcGIS Online account

ArcGIS Online

[Get started with ArcGIS Online | Learn ArcGIS](#)

- Duration: 30min
- About: In this lesson, you'll create a map that shows hurricane evacuation routes in Houston, Texas.
- Requirements: ArcGIS Online

[ArcGIS Online Basics | Esri Training Web Course](#)

- Duration: 1h 50min
- About: ArcGIS Online is a cloud-based geographic information system (GIS) used to map data, share content, and collaborate. In this course, you will learn foundational skills for working with ArcGIS Online. You will also learn about ArcGIS Online's potential benefits for you and your organization.
- Requirements: ArcGIS Online

[Creating and Sharing GIS Content Using ArcGIS Online | Esri Training Web Course](#)

- Duration: 2h 30min
- About: Organizations use ArcGIS Online to facilitate collaboration and access to GIS resources. This course shows how to publish data and map layers to ArcGIS Online as services. Learn to build a web map and turn it into a web app.
- Requirements: ArcGIS Online (Approximate number of service credits consumed: 5)

[Using GIS to Solve Problems | Esri Training Web Course](#)

- Duration: 1h 30min
- About: GIS is used to explore patterns, answer questions, and solve problems about many different topics. In this course, you will learn a five-step process to solve a problem using GIS. In the exercises, you will apply each step while working with ArcGIS Online tools.
- Requirements: ArcGIS Online (Approximate number of service credits consumed: 0.2)

ArcGIS Pro

[Get started with ArcGIS Pro | Learn ArcGIS](#)

- Duration: 30min
- About: In this lesson, you'll learn the basics of ArcGIS Pro, a desktop GIS application.
- Requirements: ArcGIS Pro 2.9

[ArcGIS Pro Basics | Esri Training Web Course](#)

- Duration: 50min
- About: ArcGIS Pro provides the tools to integrate, visualize, analyze, and share your data. This course introduces you to the powerful capabilities of ArcGIS Pro and how it can be used in your work.
- Requirements: ArcGIS Pro 2.7

[Getting Started with ArcGIS Pro | Esri Training Web Course](#)

- Duration: 5hrs 30 min
- About: Learn the essential concepts that you need to jumpstart your productivity with ArcGIS Pro. This course introduces the ribbon-style interface, project-based organization, key capabilities, and ArcGIS Pro terminology.
- Requirements: ArcGIS Pro Advanced 2.9 (Optional: 3D Analyst, Geostatistical Analyst, Spatial Analyst extension)

[Managing Map Layers in ArcGIS Pro | Esri Training Web Course](#)

- Duration: 1h
- About: This course introduces basic layer property settings you can manage to provide a simplified, focused user experience.
- Requirements: ArcGIS Pro 2.9

[Querying Data Using ArcGIS Pro | Esri Training Web Course](#)

- Duration: 30min
- About: A single dataset may store thousands of records and querying the dataset is a fast way to find features. Learn the building blocks of a query expression and how to select features that meet one or more attribute criteria.
- Requirements: ArcGIS Pro 2.9

[Integrating Data in ArcGIS Pro | Esri Training Web Course](#)

- Duration: 1h 15min
- ArcGIS Pro provides tools to efficiently organize, create, and manage data. In this course, you will learn about some common types of data used for GIS mapping and analysis, and practice adding data to a file geodatabase to support a planned project.
- Requirements: ArcGIS Pro 2.9

[Creating a Map Layout | Esri Training Web Course](#)

- Duration: 1h 15min
- About: A good map layout organizes map information so that it clearly communicates that information to the map's audience. This course will show you how to use various layout elements to design an effective map layout.
- Requirements: ArcGIS Pro 2.9

[Creating a Web Map in ArcGIS Pro | Esri Training Web Course](#)

- Duration: 3hrs
- About: In this course, you will learn how to create a dynamic, multiscale map in ArcGIS Pro and then publish it to ArcGIS Online.
- Requirements: ArcGIS Pro 2.7, ArcGIS Online

[Sharing Maps and Layers with ArcGIS Pro | Esri Training Web Course](#)

- Duration: 3hrs 30mins
- About: Learn how to share your GIS data, maps, layers, and entire projects with your colleagues and other users. This course provides an overview of ArcGIS Pro sharing options. Learn how to choose an appropriate sharing option for a given audience, type of content, and intended use.
- Requirements: ArcGIS Pro 2.9, ArcGIS Online

[Getting Started with Data Management | Esri Training Web Course](#)

- Duration: 1h 30min
- About: High-quality GIS analysis requires high-quality GIS data. But what makes GIS data unique? Explore how GIS data is structured, stored, and accessed in this entry-level course.
- Requirements: ArcGIS Pro 2.7, ArcGIS Online (Approximate number of service credits consumed: 10)

[Getting Started with Mapping and Visualization | Esri Training Web Course](#)

- Duration: 1h 15min
- About: In this course, you will explore 2D and 3D information products that you can create using ArcGIS. You will learn how to identify and choose the best information product for your audience and needs.
- Requirements: ArcGIS Pro 2.9, ArcGIS Online

[Getting Started with Spatial Analysis | Esri Training Web Course](#)

- Duration: 1 h 10 min
- About: Spatial analysis helps you to understand your world. Explore how the six categories of spatial analysis can help you answer geographic questions. Navigate these questions using the spatial analysis workflow and learn how to apply it to your own projects.
- Requirements: ArcGIS Pro 2.9

[Getting Started with Geoprocessing | Esri Training Web Course](#)

- Duration: 1h 30 min
- About: Geoprocessing is a framework for processing geographic and related data. You can use the large suite of geoprocessing tools to perform spatial analysis or manage GIS data in an automated way. This course examines key concepts and geoprocessing techniques used for analysis.
- Requirements: ArcGIS Pro 2.9

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