



International Society of Automation
Setting the Standard for Automation™

Unlock Key Insights with the ISA Digital Transformation Series



The International Society of Automation (ISA) Digital Transformation Training Series is a set of courses that provides an overview of the emerging and enabling technologies associated with digital transformation.

ISA looks at digital transformation from the automation engineer's perspective by focusing these courses on what they need to know in order to participate in a digital transformation project.

Each course addresses an aspect of digital transformation and provides an overview of the technology, fundamentals, key decision points, business use cases and includes advanced application exercises.

ISA digital transformation courses are offered in multiple formats:

- Classroom
- Virtual Classroom (V)
- Self-Paced Modular (M)

Begin Your Digital Transformation Training Journey today!

Introduction to IIoT—The Industrial Internet of Things ([DT101](#), [DT101V](#) and [DT101M](#))

This course covers the basic concepts of the internet of things and how these concepts and underlying technologies have evolved as well as how they are currently being applied to industrial applications. You will review actual IIoT projects in greater depth and examine these projects' technical and business aspects, giving you deeper insights into IIoT applications.

Introduction to Big Data ([DT102](#), [DT102V](#) and [DT102M](#))

This course provides the fundamentals needed to allow organizations to turn data into actionable information. Starting with an overview of big data, which covers key enterprise storage technologies, including SQL and noSQL, this course includes key steps for data ingestion and preparation and discusses the role automation professionals play in the data cleansing process.

Introduction to Data Visualization ([DT103](#) and [DT103V](#))

This course begins with an overview of visualization by covering the different types of analytics used for visualization, including descriptive and diagnostic portals. It explores the various forms of visualization that enable data to become valuable information. You will also learn how extended reality is used for visualization, including augmented virtual and mixed reality. Specific examples of how the various forms of extended reality are used will be presented.

The Evolution of Automation Systems ([DT104](#) and [DT104V](#))

This course is designed to provide context to the industrial internet of things and Industry 4.0 by providing an overview of the evolution of automation throughout previous industrial revolutions. It highlights how productivity, organizational structure and general manufacturing operations have evolved.

**To learn more about the ISA digital transformation series,
please visit isa.org/dtseries**