

# I4.0 CHAMPIONS PROGRAMME: Skills Connect

It is important to keep up to date with the latest technological advances to ensure that your business delivers better products faster and smarter. To do this, your staff need to be skilled in a wide range of relevant digital solutions to enhance productivity and keep you ahead of your rivals.

This training is **fully funded** by Skills Connect through the West Yorkshire Combined Authority and the West Yorkshire mayor as part of Future Goals. It is open to individuals aged 19+ working in manufacturing and engineering in West Yorkshire.

## Workshops/ Sessions

Introduction to  
Industry 4.0

Advanced  
Simulation  
and Design

Robotics and  
Automation

Additive  
Manufacturing  
3D Scanning  
and Printing

Process  
Control Systems  
Data generation  
and Data  
Analytics

### Available Dates

27th January  
12th February  
24th February  
3rd March  
19th March

### These one day sessions include:

Introduction to Industry 4.0  
Plus  
Your choice of two (2) of the other workshops\*

Time: 09.00 - 16.30

\*NB Delegates wishing to attend more than 2 of the workshops are eligible to attend additional dates



**REGISTER  
NOW**

For more information or to register your place please contact:  
julietiffany@textile-training.com  
Alternatively please call 01484 346500

# Sessions Overview

## Introduction to Industry 4.0

This session will introduce you to the principles that underpin Industry 4.0, also known as the Fourth Industrial Revolution, represents a fundamental shift in the way manufacturing processes are carried out. This revolution is characterised by the integration of advanced technologies such as artificial intelligence, robotics, the Internet of Things, and big data analytics into the manufacturing sector. These principles aim to improve productivity, reduce costs, and enhance product quality, ultimately leading to greater competitiveness in the global marketplace.

## Advanced Simulation and Design

Participants will learn about the latest technological advancements in Design and Advanced Simulation and how they are revolutionising the manufacturing processes in the era of Industry 4.0. They will explore how these technologies can be harnessed to create virtual prototypes, simulate real-world scenarios, and enhance the efficiency and productivity of engineering and manufacturing operations. This session will introduce the use of Advanced Simulation, Virtual Reality (VR), Augmented Reality (AR) in the context of all types of design (parts, processes and products) for Engineering and Manufacturing, specifically in relation to Industry 4.0.

## Robotics and Automation

This course will explore the advancements in robotics and automation within the engineering and manufacturing industries, particularly in the context of Industry 4.0. Participants will learn about the various applications of robotics and automation in streamlining production processes, enhancing efficiency, and improving overall productivity in manufacturing settings.

## Additive Manufacturing: 3D Scanning and Printing

This session will introduce the principles and applications of 3D scanning and 3D printing in the field of Engineering and Additive Manufacturing. Participants will learn how to capture physical objects in a digital format using 3D scanning technology. How to manipulate and modify these digital models to generate technical drawings for component replacement and other engineering projects. Participants will gain an understanding of how to go from technical drawing to printing a component.

## Process Control Systems: Data generation and Data Analytics

This session will explore the use of sensors in engineering and manufacturing processes to monitor and collect data for analysis. The focus will be on leveraging this data to drive efficiency and productivity in the context of Industry 4.0. Participants will learn about different types of sensors, their applications, and how they can be integrated into existing processes. The session will also cover data analysis techniques and tools to make informed decisions based on the sensor data.

## Review Workshop- What Next?

The Review Workshop provides valuable insights and feedback that can help identify the next steps

- Action Planning
- Further Training and Resources
- Change Management

## Location

The I4.0 Hub,  
West Yorkshire Manufacturing  
Services  
Kirkdale House  
Armytage Road  
Brighouse  
HD6 1QF

What3words: ///guises.chef.staple

Participants will be eligible if they are:

- Aged 19+
- Living in West Yorkshire; and are: Employed incl. self-employed Please note the participant must have the right to legally reside and work in the UK

They must **not**:

- Be in full time education
- Be undertaking an apprenticeship at the time of joining
- Have completed a previous Skills Connect course (participants can only access the funding once)
- Be economically inactive (definition of economically inactive is not being able start work in the two next weeks).

Students and Apprentices are NOT eligible. Any subsequent training or education must commence after the last day of training on Skills Connect.

Places per employer will be limited to:

- Four (4) individuals per employer + 250
- Three (3) individuals per employer between 100-250 employees
- Two (2) individuals per employer between 50-100 employees
- One (1) individual per employer between 1-50 employees

