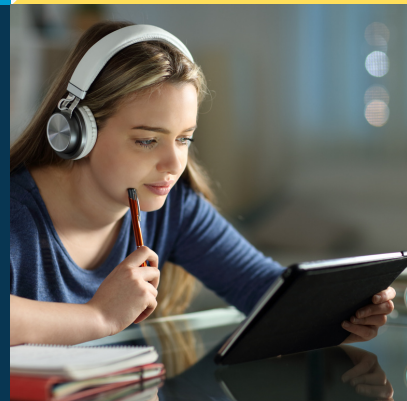


SMDH Academy

New Skills to Enhance your Business

academy.smdh.uk





About Us

SMDH Academy is a learning experience platform that provides data and digital training to enable SME's and their workforce to learn and upskill by providing them with a wide range of training content.

The training content has been divided into manageable segments, with each course expected to be completed within a half-day, allowing you to finish modules at your own convenience.



01 Manufacturing

02 Programmable Logic Controllers

03 Visual Components

04 Change Management

05 Data Science Foundation

06 Project Management

07 First Line Leader

08 Cyber Security

09 ORE, AEP & DVP

10 Get in Touch

Manufacturing

- ✓ **AN INTRODUCTION TO LEAN**
 - What lean is and look at applying principles in the work environment.
- ✓ **THE APPLICATION OF LEAN**
 - Demonstrate how you can use the methodology for process improvement in the organisation.
- ✓ **PRACTICAL EXAMPLES OF LEAN**
 - How lean methodology can be applied to the office environment.
- ✓ **MODULE 1 - AN INTRODUCTION TO GOOD MANUFACTURING PRACTICE**
 - What could you do better to ensure GMP?
- ✓ **MODULE 2 - APPLYING GOOD MANUFACTURING PRACTICE**
 - How GMP is applied and what areas are covered.
- ✓ **MODULE 3 - AUDITING GOOD MANUFACTURING PRACTICE**
 - Audits - what they are, why they are important and useful and how to do one.
- ✓ **MODULE 4 - SETTING YOURSELF UP FOR GOOD MANUFACTURING PRACTICE**
 - How you can set your organisation up well to be able to deliver on GMP.



Questions

Multiple Videos



Interactive Learning

Programmable **Logic** Controllers

PLC'S ARE INDUSTRIAL COMPUTERS, USEFUL FOR AUTOMATING PROCESSES, MACHINES AND EVEN AN ENTIRE FACTORY LINE.

Course Structure: 7 Modules

- 1. An Introduction to PLC's**
- 2. An Introduction to Ladder Diagram's**
- 3. Demonstration of a Ladder Diagram**
- 4. PLC Memory and Data Types**
- 5. LD Programming: Boolean Logic and Functional Blocks**
- 6. Demonstration of an LD Program in the OpenPLC Editor**
- 7. PLC Programming Workbook**

What is included?



Visual Components Overview

THIS COURSE INTRODUCES VISUAL COMPONENTS, A SIMULATION SOFTWARE USEFUL FOR CREATING DIGITAL TWINS.

Digital twins provide a virtual representation of the physical objects and devices which can be used to design complete production lines. Visual components come with a large library of pre-built models which are easy to use, these components can be directly dropped into the workplace for each of implementation.

There are four modules included in this course:

MODULE 01

Digital Twins

- What is a digital twin
- Advantages of digital twins
- Examples

MODULE 02

Visual Component Interface

- Visual component walkthrough
- Creating a conveyor

MODULE 03

Visual Component Simulation

- Assembly cell cobots simulation

MODULE 04

Visual Component Tutorials

- Seven tutorials to test your knowledge


Change Management



EQUIP INDIVIDUALS WITH THE KNOWLEDGE AND SKILLS NEEDED TO NAVIGATE ORGANISATIONAL TRANSITIONS, FOSTER ADAPTABILITY AND LEAD SUCCESSFUL TRANSFORMATIONS WITHIN A DYNAMIC BUSINESS ENVIRONMENT.

Course Structure: 10 Modules

- 1. Understanding the Importance of Marketing**
- 2. Understanding the Organisation Environment**
- 3. The Modern Apprentice**
- 4. Leading and Managing Change and Transition**
- 5. Change Management: Introduction**
- 6. Change Management: Change and People**
- 7. Change Management: The Change Process**
- 8. Change Management: Change Tools**
- 9. Conflict Resolution**
- 10. Understanding Organisational Culture and Ethics**

What is included?



-  **Multiple Videos**
-  **Questions**
-  **Discussion Questions**
-  **Interactive Learning**

Data Science Foundations



LESSON ONE

- An introduction to data science foundations
- Software instructions for installing Anaconda Navigator
- File management in Python
- An introduction and fundamentals of Python
- First Practical Example



LESSON TWO

- An introduction to NumPy
- An introduction to Pandas
- Instructions for uploading files in Python
- Second Practical Example



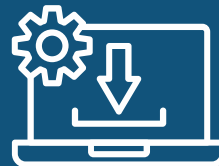
LESSON THREE

- An introduction to Feature Selection
- An introduction to Data Visualisation
- Third Practical Example



LESSON FOUR

- An introduction to Machine Learning
- An introduction to Supervised and Unsupervised Learning
- Image Processing in Python
- Fourth Practical Example



**Installation
Guides**

**Multiple
Videos**



**Practical
Tutorials**

Project Management

THIS PROJECT MANAGEMENT COURSE PROVIDES INSTRUCTIONS ON THE PRINCIPLES, METHODOLOGIES AND TOOLS THAT ARE ESSENTIAL FOR EFFECTIVELY PLANNING, EXECUTING AND CLOSING PROJECTS TO ACHIEVE ORGANISATIONAL GOALS.

Course Structure: 10 Modules

- 1. Project Management**
- 2. Meeting Skills**
- 3. Steering a Project**
- 4. So you Want to Manage a Project?**
- 5. Welcome to Delivering with Others**
- 6. Crafting the Perfect Meeting**
- 7. Prioritisation**
- 8. Facilitation Skills**
- 9. Module 1 - Introduction to Agile Project Management**
- 10. Module 2 - The Scrum Method**

What is included?



Multiple Videos

Questions

Discussion Questions

Interactive Learning

First Line Leader

THIS COURSE FOCUSES ON DEVELOPING LEADERSHIP COMPETENCIES, EMPHASISING EFFECTIVE COMMUNICATION, TEAM MANAGEMENT AND DECISION MAKING TO DRIVE TEAM SUCCESS.

Course Structure: 18 Modules

- 1. Welcome to Talent Development**
- 2. Welcome to Leadership**
- 3. Stepping up to Leadership**
- 4. Understanding your New Team and their Workload**
- 5. Workload Planning for New Leaders**
- 6. Skills for Leadership**
- 7. Prioritisation for New Leaders**
- 8. Delegation for New Leaders**
- 9. Developing your Leadership Style**
- 10. Managing Time**
- 11. Handling Interruptions and Distractions**
- 12. Planning and Running Effective Meetings**
- 13. Leading a Team Remotely for New Leaders**
- 14. Remote Team Performance**
- 15. Setting yourself up for success - Dealing with Change**
- 16. Setting yourself up for success - Buy Me**
- 17. Setting yourself up for success - Staying Alive**
- 18. Setting yourself up for success - Burglar Bill**

Multiple Videos



Discussion Questions



Interactive Learning



Questions



Cyber Security

EQUIPS PARTICIPANTS WITH THE SKILLS TO DETECT, PREVENT AND RESPOND TO CYBER THREATS.

There are **11** modules included in this course:

MODULE 01	Data Protection for Marketing Staff
MODULE 02	Data Protection for Call Centre Staff
MODULE 03	Cyber Security
MODULE 04	Data Protection
MODULE 05	Data Security
MODULE 06	Information Security
MODULE 07	Information Management
MODULE 08	Information Governance
MODULE 09	Data Protection for HR and Managers
MODULE 10	Cyber Security in the Workplace
MODULE 11	Cyber Crime



OPEN RESEARCH ENVIRONMENT

A short ten minute video on the available research environments including the ORE and TRE. The research environment allows SMDH users to create Virtual Machines in the cloud where data experts can securely analyse SME data.

ASSET EXPLORER PORTAL

Twenty minute video explaining our Asset Explorer Portal (AEP) to upload, view and share digital assets related to smart manufacturing. Here you can find case studies, sample data and technical solutions for your manufacturing data problems.



DATA VISUALISATION PLATFORM

Short five minute video explaining how our data visualisation platform allows for a data scientist to quickly process, create and share dashboards to SME's. To access the DVP you need to talk to a member of the SMDH Business Team.



Get In Touch

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