

CERTIFICATION PROGRAM IN PROCESS CONTROL TECHNIQUES

School of Engineering **Newcastle University**, United Kingdom and **Honeywell** Process Solutions are pleased to announce a joint “**Certification Program in Process Control Techniques**”

Duration: 2 weeks

Location: School of Engineering, Newcastle University, Newcastle upon Tyne, United Kingdom

Intended Audience: The program is designed to elevate skills for Process engineers, Plant operators, Plant managers, Control system engineers, Students and New Hires, and Industry professionals seeking career advancement

About Newcastle University

As founding member of the Russell Group of Research-intensive universities, and a **Global Top 110 university** (QS World University Rankings 2024), Newcastle University is dedicated to excellence, creativity and innovations, pioneering solutions that can change our world.

Delivering world-class research and teaching, Newcastle Universities is tackling some of the biggest challenges facing society globally, leading in our key strengths of ageing and health, data, energy, cities, culture and creative arts, and one planet. . More information: <https://www.ncl.ac.uk>

About Honeywell

Honeywell Process Solutions is a pioneer and global leader in automation control, instrumentation and services for the oil and gas; refining; energy; pulp and paper; industrial power generation; chemicals and petrochemicals; biofuels; life sciences; and metals, minerals, and mining industries.

Honeywell technologies are helping facilities, supply chains and workers become more connected, making them safer and more profitable – our integrated, industry-specific solutions are tackling customers’ complex problems no matter the size of operations. More Information: <https://process.honeywell.com/>

PROGRAM BENEFITS

This two-week intensive certification program will develop an awareness of the principles of measurement and the design features of a variety of instruments.

Hands-on experience of the Honeywell C300 platform will allow delegates to become familiar with the operation and use of a variety of typical items of process instrumentation and control loop hardware

PROGRAM OBJECTIVES

Understand Distributed Control

- Experion PKS Overview
- Server, Station and Connections
- C300 Controller hardware
- Control Builder

Build Control Strategies

- Build Data Acquisition Points
- Build Single loop regulatory control points
- Build Cascade Control Points
- Build ON/OFF Control Points
- Import/ Export of control strategies

Process Control Basics

- Instrumentation Diagrams
- Measurement of Level, Flow, Pressure and Temperature
- Valves and Actuators
- Field Communication: HART, FF, Profibus, Ethernet IP, Modbus
- Safety in Process Control systems

Process Control Labs (hands on)

- Mass Transfer
- Flow Channel Calibration
- Control Loop Tuning
- Steady State Process Gains
- Ratio Control
- Feedforward Control
- Multivariable Control
- Start up and Shutdown Procedures

CONTACT US

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