

17th April 2015 Safe Industrial Ethernet

A free seminar presented by **Rockwell**
Automation

Agenda Update Below

Connecting to manufacturing control systems using Ethernet

- **is this a good idea?**

CSS would like to invite you to a free seminar highlighting the benefits, risks and some very simple precautions that mean the answer is usually

- **yes**

In addition to a general explanation of the issues involved, we will be demonstrating solutions based on products from Rockwell Automation.

There will also be guidance on the use of freely available diagnostic software plus a demonstration of an **alarmingly** easy way to **accidentally** render your manufacturing systems useless - if you haven't implemented the simple precautions demonstrated.

The Seminar will be held at our Llantarnam offices (near Cwmbran) on the **17th April 2015**.

We will be offering tea, coffee, biscuits and bacon rolls at **9.00 am**. The presentation and associated hands-on demonstration will start at **9:30am** and finish at **12:30pm** (including breaks for refreshments).

We will provide more details on the programme in the coming weeks.

If you haven't already done so please contact Sophie on 01633 868168 to reserve your place to avoid disappointment.

Agenda

The presentation will be split into three 45 minutes sessions with a break for refreshments between each one. Each session will be split into three parts.

Session 1 Introduction

Part 1

Introduction to Ethernet and its physical layer.

Part 2

Mac address, IP address, subnet and how they are allocated. Demo of BootP

Part 3

Hubs and switches (managed v unmanaged). Broadcast storm demo

Session 2 Design considerations

Part 1

Network design. Demo of network switch management

Part 2

NAT (Network address translation). Demo of different types of switches.

Part 3

VLAN and routing. Demo of multi VLANs on one switch and routing between two of them.

Session 3 Best practice and diagnostics.

Part 1

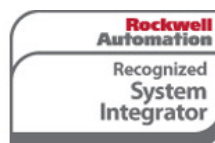
Network installation / configuration best practice. Demonstration a of free wireless analyser

Part 2

Fault finding techniques demonstration

Part 3

Free tools for design and diagnostics. Demo of the use of Wireshark to diagnose multicast and RSLinx issues.



Control Systems Services Ltd
Unit 4 Lakeside Park
Llantarnam
Cwmbran
NP44 3XS
T: +44 (0)1633 868168
www.controlsystems.co.uk

Company Registered in England & Wales Reg No: 02881446

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