

# Valmet DNA network course

This course provides a detailed review of the Valmet DNA network structure, communication and TCP/IP-protocol, network diagnostic and configuration of network components.



## Objective

After completing the course the maintenance people will be familiar with Valmet DNA network and communication protocols and are able to solve typical problems.

## Target group

Persons responsible for the maintenance of the Valmet DNA.

## Prerequisite

Valmet DNA Basic course

## Course duration

2 days

## Course limit

Max. 8 attendees

## Benefits

Through Valmet's professional training programs, either standard courses or tailored to your specific needs, you will have optimized competences available in your organization. Together we make a development plan for your personnel based on your business needs, and deliver the agreed training flexibly and effectively.

- Optimized competence development enables
- better utilization of features in the automation and control solutions
  - proper installation, start-up, operation and maintenance of the solutions and equipment
  - improved knowledge of product-related safety and environmental issues
  - better employee motivation

The results are typically visible as higher productivity, plant availability, improvements in end product quality, time and material savings.



# Course Program

## Day 1, 9:00 – 16:00

### Valmet DNA system architecture

- Control room bus
- Process bus
- Network components

### Network components and cabling

- 10Base2, 100BaseTX, 100BaseFX
- Repeater, HUB
- Switch, router

### TCP/IP briefly

- TCP/IP model
- IP addresses
- Subnetmask
- Routing generally

## Day 2, 8:30 – 15:00

### Valmet DNA communication

- IP addresses
- Multicast addresses
- Hardware addresses
- Token addresses

### Switch

- Function
- IGMP
- STP
- RSTP
- VLAN
- Configuration

### Valmet DNA troubleshooting

### Ethernet troubleshooting

