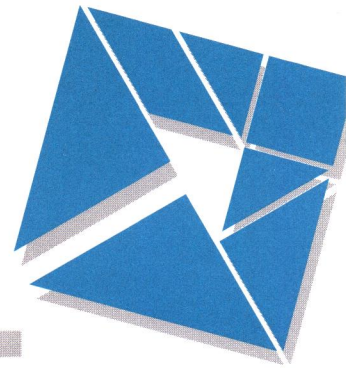# SIEMENS

# Zertifikat
## Wissen für Automatisierung

## SIMATECH
Information and Training Centre

SIEMENS authorised SIMATIC Training Centre in Bulgarien

This is to certify that

## Mr. Vladimir Georgiev Shumanski

has completed course

## S5KOMP - SIMATIC S5  Training for Engineers

From 18.05.98.  to  29.05.98

Content of the course:

- Representation of STEP5 operation such as CSF, LAD, STL.
- Basic operations and supplementary operations.
- Developing program structures, programming and using organisation blocks, program blocks, function blocks and data blocks.
- Addressing digital and analogue modules and function testing.
- Starting characteristics, cyclic, time-driven and alarm-driven program processing.
- Analogue value processing.
- Programmer functions for program generation, documentation, debugging, diagnostics and troubleshooting.
- Working out solutions of practice-oriented problems. Applying them in exercises with the programmer and programable controller in conjunction with a conveyor model.

Certificate Nr.  421/98

N. Hadjieva
Plovdiv,  29.05.98

E80001-V951-E7

Informations- und Trainings-Center für Automatisierung

## Progress
in Automation.
Siemens