

Certificate

*This is to certify that*

**Mr. Nicolas Muller**

*has successfully completed a course  
comprising the following subjects:*

**CH112**

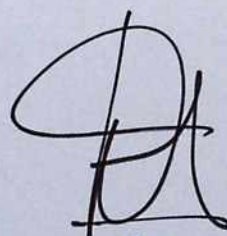
**800xA applications for Minerals  
Configuration and Operation**

- System architecture
- Hardware AC800M
- User interface / Plant explorer
- Variables and Data types
- Monitoring and testing applications
- Programming according IEC 61131-3
- Configuration with Control Modules
- Creation of process graphics
- Events and Alarms
- Data logging and Trends
- System administration

*conducted at ABB offices in  
Baden-Daettwil, Switzerland*

***1<sup>st</sup> – 12<sup>th</sup> November 2004***

Instructor: Patrick Vergult



Training manager: Marco Meier

