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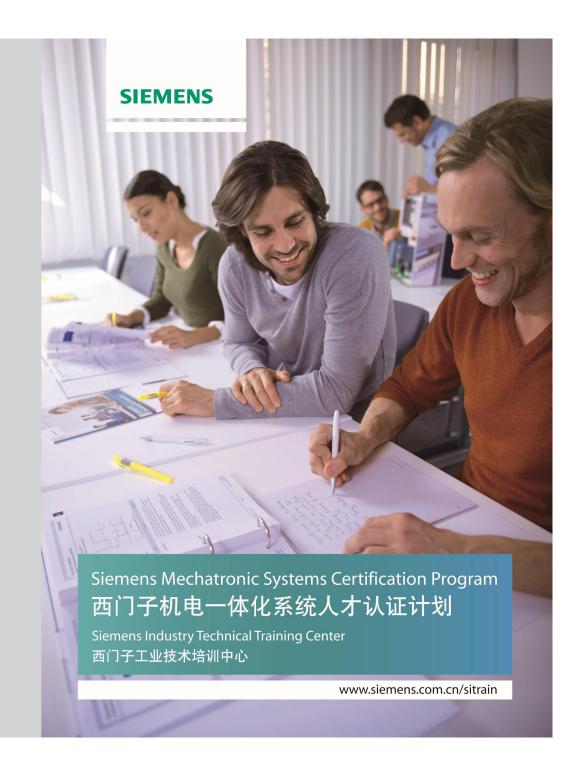
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Siemens - World Leader in **Mechatronic Engineering**

Siemens AG, one of the world's largest high-tech manufacturing corporations, is a leader in complex technologies, particularly in systems integrating electrical, mechanical and computer engineering, better known as mechatronic systems, which play an ever-increasing role in technology.

There is a growing need for solid, up-to date, industry-focused qualifications in integrated mechatronic systems.

Siemens AG has responded to this need by creating an industry certification program that will help students, teachers and institutions -

The Siemens Mechatronic Systems Certification Program (SMSCP).

在机电一体化系统领域, 西门子公司在世界上 名列前茅。鉴于企业界越来越需要专业基础扎实、 掌握最新技术、实践能力强的机电一体化人才, 因 此, 西门子特别推出: 西门子机电一体化系统人才认 证计划(简称 SMSCP 计划)。

Introduction to the SMSCP

The Siemens Mechatronic Systems Certification Program (SMSCP) is an international industry standard comprehensive skills certification offered together with partner schools worldwide.

The central theme in the SMSCP is the System Approach, a special set of teaching and learning methods.

The program offers a standardized curriculum package that is designed to complement and it into existing programs of study.

The entire program, including instructions is in English.

西门子机电一体化系统人才认证计划是一个国 际认可的认证计划,旨在培养学员符合产业界要求的 全面综合技能。该计划由西门子职业学院与其各国伙 伴机构在全球推广, 其内容以系统理念为主导, 工作 语言--包括授课--全部为英语。

System Approach

系统理念

The SMSCP curriculum is the result of the work of the core team of teachers at Siemens Technik Akademie Berlin, Siemens' own elite international technical college. This team has developed a special teaching and learning approach over the last 25 years that always keeps the whole system in focus. This special set of didactic methods is called System Approach.

As a result, successful candidates learn how to work their way into and through a new system, and by means of the troubleshooting strategies which they learn, they are able to adapt their knowledge to new systems and situations. In short: They develop "Handlungskompe-

系统理念的讲授方案是由柏林西门 子技术学院——西门子股份公司下属的 国际高等职业教育精英学校开发的。依 该方案培养的人才, 专业基础扎实, 可 以很快适应并胜任新的工作情况, 即拥 有"Handlungskompetenz*"。

*Handlungskompetenz:When a skilled worker is able to adapt to a new situation or system in a selfdependent, fexible and fast way of working.

*Handlungskompetenz:指能够独立、灵活、 迅速地适应新情况或新系统的能力。

Curriculum meeting the needs of industry 教学内容针对产业界需求

Level 1: Siemens Certified Mechatronic Systems Assistant

一级:西门子认证机电一体化系统高级技工

- (Electro)Pneumatic and Hydraulic CircuitsDigital Fundamentals and PLCs

Level 2: Siemens Certified Mechatronic Systems Associate

二级:西门子认证机电一体化系统助理技师

Six courses cover:

• Process control technologies

• Introduction to Totally Integrated Automation

• Automation systems

Level 3: Siemens Certified Mechatronic Systems Professional

三级:西门子认证机电一体化系统技师

Certified Mechatronic Systems Professionals are educated at the bachelorengineer level, with a focus on systems thinking, design and "Handlungskompetenz".

达到本级, 学员可操作高级智能机床目拥有 "Handlungskompetenz*"。

四门课程包含:

- 电气元件
- 机械元件和电力驱动
- (电)气动和液压回路 • 数字基础和可编程控制器

学时:1周

达到本级, 学员的专业水平可达技术员级别 且拥有"Handlungskompetenz*"

六门课程包含:

- 过程控制技术
- 全集成自动化概论
- 自动化系统
- 电机控制
- 机械和机器部件 • 生产工艺

学时: 2周

达到本级, 学员的专业水平可达工学学士级 别且拥有系统思考能力、设计能力以及 "Handlungskompetenz*"。

六门课程包含:

- 工程要求
- 项目管理-计划和跟踪
- 工程
- 质量保证和管理
- 实践应用
- 专业工程项目

学时:2周