

Level 3 - Siemens Certified Mechatronic Systems Professional

Level 3 (Professional) Certification consists of two main content areas. Each content area should be covered within a mechatronic system project, which students need to complete within the SMSCP Level 3 course. Consequently the Project and Process Management part and the Mechatronic System Project part are taught in an integrated way. Both content areas together consist of roughly 160 hours of classroom instruction with additional laboratory work on a physical system located at the training institution.

- *Project and Process Management*
- *Mechatronic System Project*

Job Profile

A Siemens Certified Mechatronic Systems Professional will function as a skilled designer of complex mechatronic systems. A Certified Professional will be able to apply selected project and system engineering practices, like requirements engineering, project management, process management, quality assurance & management, etc. in a project with the goal to design or improve a mechatronic system upon customer and user needs.

MODE OF APPLICATION

Application forms can be obtained from Dedan Kimathi University of Technology Main Campus and Nairobi Campus or downloaded from the University website as provided below:

- Application forms
- Admission materials and submitted upon payment of a non-refundable fee Ksh.1, 000/-, to any of the following bank accounts:

Family Bank-Acc No: 055000028807, Nyeri, Kenya

Consolidated Bank-Acc No: 0120025172901, Nyeri, Kenya

Commercial Bank-Acc No: 1121318274, Nyeri, Kenya

Equity Bank- Acc No: 1150297300480, Nyeri, Kenya

Standard Chartered Bank –Acc No: 0102045131203, Nyeri, Kenya

For more information about the program, please contact any of the following:

Registrar (Academic Affairs)

P.O. Box 657 – 10100, Nyeri
 Cell: 0713 835 965, 0713 123 021
 Tel: 061- 2050000
 Email: registraraa@dkut.ac.ke

Director, Nairobi Campus

Pension Towers 2nd, 9th and 13th floor, Loita Street.
 Cell: 0710 127 516
 Email: directornairobi@dkut.ac.ke

Chairman of Department, Mechatronic engineering

P.O. Box 657-10100 Nyeri
 Cell: 0716150627
 Email: codmechatronics@dkut.ac.ke



DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY

Better life through technology

SIEMENS MECHATRONIC SYSTEMS CERTIFICATION PROGRAM (SMSCP)

Dedan Kimathi University of Technology (DeKUT) is a Chartered Public University that has two campuses: The Main Campus located within Nyeri County, 160 kilometers North of Nairobi City and Nairobi Campus located on the 2nd, 9th and 13th floor of Pension Towers, Loita street.

DeKUT is under legal notice no. 162 of 2007 mandated to:

- Collaborate with other institutions in furtherance of its objectives as an education institution.
- Participate in the discovery, transmission, preservation and enhancement of knowledge and to stimulate the intellectual participation of students in the economic, technological, scientific, profession and cultural development.
- Provide and advance university education and training to appropriately qualified candidates leading to the conferment of degrees, diplomas, certificates and awards and in so doing contribute to manpower needs.

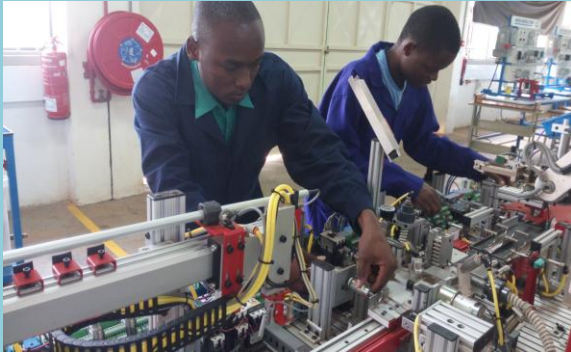
We invite applications from suitably qualified applicants for the Siemens Mechatronics Systems Certification Program (SMSCP) 2017 intake.

Program information

Manufacturing, packaging and other systems are becoming more complex and pervasive, and more knowledge is required to design, operate and maintain them than ever before. Complex mechatronic systems are the nexus of mechanical, electrical, and computerized technologies. There is a growing need for qualified people with up-to-date knowledge of integrated mechatronic systems. As a world leader in mechatronic engineering, Siemens AG has responded to this need by creating a certification program that will help students, workers, industries, teachers and institutions.

SMSCP's technical content focuses on key industrial skill areas, such as electrical components, sensors, motor controls, PLCs, hydraulics and pneumatics. In addition to teaching the technical knowledge, SMSCP stresses trouble-shooting and system-based technical thinking via hands-on training. This technical training, paired with our certifications, creates well-grounded workers that can easily meet the challenges of high tech and advanced manufacturing industries.

Siemens Technik Akademie administrates the program and works with partner institutions worldwide to implement the program. Regardless of where on the globe the people live and work, a Siemens certification will signify their world-class technical training.



The Siemens Mechatronic Systems Certification Program Level 1 will start on **4th January 2017**. Examination and certificate will be handled by the SIEMENS TRAINING ACADEMY in BERLIN, GERMANY.

LEVEL	ADMISSION DATE	ENTRY REQUIREMENT
Level 1	January 2017	There shall not be eligible conditions for consideration for admission into the SIEMENS Certification Program LEVEL 1 but a candidate must have firm knowledge in Electrical/Mechanical/Mechatronic Engineering systems.
Level 2	May 2017	A pass in Level 1
Level 3	September 2017	A pass in level 1 and 2

Level 1 - Siemens Certified Mechatronic Systems Assistant

Level 1 (Assistant) Certification consists of four courses; Each course consists of roughly 60 hours of classroom instruction with additional laboratory work on a physical system located at the training institution, on PC and web-based simulations, etc.

- Course 1: *Electrical Components*
- Course 2: *Mechanical Components and Electrical Drives*
- Course 3: *(Electro) Pneumatic and Hydraulic Control Circuits*
- Course 4: *Digital Fundamentals and PLCs*

Job Profile

A Siemens Certified Mechatronic Systems Assistant will function as a well-grounded machine operator in a complex system, with responsibility for efficient operation of the equipment with minimal down-times. Normally a Siemens Certified Mechatronic Systems Assistant would carry out their work at plant assembly sites, workshops or in connections with service operation which utilize complex mechatronic systems.



Level 2 - Siemens Certified Mechatronic Systems Associate

Level 2 (Associate) Certification consists of six courses. Each course consists of roughly 60 hours of classroom instruction with additional laboratory work on a physical system located at the training institution, on PC and web based simulations, etc

- Course 1: *Process Control Technologies*
- Course 2: *Introduction to Totally Integrated Automation*
- Course 3: *Automation systems*
- Course 4: *Motor control*
- Course 5: *Mechanics and Machine Elements*
- Course 6: *Manufacturing Processes*

Job Profile

A Siemens Certified Mechatronic Systems Associate will function as a highly skilled technician who can work with modules and components in complex mechatronic systems as well as be able to access and analyze the system as a whole. A certified Associate can manage, investigate, repair and troubleshoot mechatronic systems, with the aim of operational efficiency and cost and process control. A Siemens Certified Mechatronic Systems Associate would usually carry out their work at production facilities, workshops, or in service sites that use complex mechatronic systems.