ELECTRICAL TECNOLOGY, CISCO CERTIFIED NETWORK INSTALLATION ASSOCIATE

Curriculum Guide for Academic Year 2021-2022

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Students planning to **transfer** to a four-year college or university should refer to the ASSIST web site at www.assist.org and **consult a counselor** before beginning a program of study. Please call (562) 938-4561 (LAC) or (562) 938-3920 (PCC) to schedule a counseling appointment. Students may also wish to visit the Transfer Center on either campus.

Program of study leading to:
Associate in Science (A.S.) Degree

			Units	In Progress	Completed Grade
Required Major Coursework:					
	ELECT 253	OSHA Standards for Construction Safety	2		
†	ELECT 225	Algebra and Trigonometry for Technicians	4		
†	ELECT 204	First Semester Fundamentals of DC Electricity	4		
†	ELECT 240	Introduction to the National Electrical Code	3		
†	ELECT 209	Second Semester Fund of Motors/Generators	4		
†	ELECT 435A	Motor Control Wiring and Troubleshooting	2		
†	ELECT 212	Third Semester Fund Of AC Electricity	4		
†	ELECT 214	Fourth Semester AC Principles & Practice	4		
†	ELECT 242	Electrical Code-Grounding	1.5		
		Subtotal Units	28.5		
Required Concentration Courses					
	CISCO 250	Communications Cabling Installation	2		
	CISCO 251	Introduction to Networking	2		
†	CISCO 252	Routing and Switching Essentials	2		
†	CISCO 253	Scaling Network	2		
†	CISCO 254	Connecting Networks	2		
		Subtotal Units	**10**		
		TOTAL UNITS	**38.5**		

For graduation with an **Associate in Science (A.S.) Degree with a major in Electrical Technology, CISCO Certified Network Installation Associate:**

1. **Minimum Unit Requirements: §**Any course that appears on a curriculum guide and the General Education Pattern (Plan A) may fulfill both major and general education requirements (Approved by College Curriculum Committee Spring 2012). For this degree, complete a minimum of 60 units in courses numbered 1-599. Please note that additional elective units may be required to meet this minimum based upon courses selected to fulfill General Education for the Associate Degree

    CISCO Certified Network Installation Associate   38.5 Units
    General Education **§**   19 Units

2. **Scholarship:** Maintain an **overall grade point average (GPA) of 2.0** ("C" average) based on all accredited college work applied to the degree, no matter where completed. For this **field of concentration, complete each course above** with a **grade of "C" or better**, or "P" if course is graded on a P/NP basis.

3. **Residence for the Degree:** Complete at least 12 semester units of the required 60 semester units in residence at Long Beach City College in order for the college to grant an Associate of Arts and/or an Associate of Science

Degree.
4. **Residence for the Field of Concentration**: Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 19.5 units** of the required 38.5 units. Credit earned by exam, where applicable, may be included.
5. **General Education and Proficiency Requirements:** Complete the required A.A./A.S. General Education and Proficiency requirements*, otherwise known as "Plan A". For Plan A requirements, refer to the general catalog or view it online at http://osca.lbcc.edu .
6. Complete and submit the degree application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/ . Refer to the Schedule of Classes (http://schedule.lbcc.edu) and click the "Important Dates" link to view the actual deadline for each semester

*The requirements for general education/proficiency and the field of concentration (major) need to be from the same catalog year. This catalog year may be any year between the year of initial enrollment to the present, provided continuous enrollment is maintained throughout. See the catalog for definition of "continuous enrollment".

Program of study leading to:
Certificate of Achievement

REQUIRED COURSES—Complete the 38.5 units of required courses as listed in the Associate Degree requirements box.

TOTAL UNITS	**38.5**	

For graduation with a **Electrical Technology, CISCO Certified Network Installation Associate Certificate of Achievement:**
1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of** "**C**".
2. Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 19.5 units** of the required 38.5 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.

Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/ . Refer to the Schedule of Classes (http://schedule.lbcc.edu) and click the "Important Dates" link to view the actual deadline for each semester.

Program of study leading to:
Certificates of Achievement – CISCO Certified Network Installation Associate

	REQUIRED COURSES		**UNITS**	**In Progress**	**Completed Grade**
	CISCO 250	Communications Cabling Installation	2		
	CISCO 251	Introduction to Networking	2		
†	CISCO 252	Routing and Switching Essentials	2		
†	CISCO 253	Scaling Network	2		
†	CISCO 254	Connecting Networks	2		
		TOTAL UNITS	**10**		

For graduation with a **CISCO Certified Network Installation Associate Certificate of Achievement:**
1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of "C",** or better, or "P" if course is graded on a P/NP basis**.**
2. Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 5 units** of the required 10 units. Credit earned by exam, where applicable, may be included.

Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/ . Refer to the Schedule of Classes (http://schedule.lbcc.edu) and click the "Important Dates" link to view the actual deadline for each semester.

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Program of study leading to:
Certificates of Accomplishment

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Certificate: Network Cabling Specialist **4089**

REQUIRED COURSES		UNITS	In Progress	Completed Grade
CISCO 250	Communications Cabling Installation	2		
	TOTAL UNITS	**2**		

For graduation with a **Certificate of Accomplishment:**
1. Complete the above required units with a minimum grade point average of 2.0 ("C" average).
2. Fifty percent (50%) or more of the required units must be completed in residence at LBCC.
3. Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/ .

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Career Opportunities

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This **Associate Degree or Certificate of Achievement** is a two-year program leading to the Associate in Science (A.S.) degree. This degree will help students succeed after transferring to a CSU or UC School Computer Science major program. Students wishing a bachelor's degree (transfer program) should meet with a counselor to discuss transferability of courses.

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Program Mission and Outcomes

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Program Student Outcomes (A.S. and CISCO Certified Network Installation Associate):
- Develop procedures for the successful installation, maintenance and troubleshooting of CISCO related network infrastructure.

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Legend

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† This course has a prerequisite. Prerequisite courses must be complete with at least a "C" or "P" grade. Refer to the General Catalog (http://www.lbcc.edu/cat/index.html), the Schedule of Classes (http://schedule.lbcc.edu/), or the online Credit Course Outline (http://wdb-asir.lbcc.edu/coursecurriculum/coursedetails/) for specific prerequisite information.

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A.S = 2992; C-ACH = 3992; C-ACH = 3932; C-ACC = 4089   Edited: 07/29/21
Departmental Phone: 562-938-4294, Web Site:
Information on this sheet is subject to change without notice. Any updates to this guide are posted at http://osca.lbcc.edu .