



East Los Angeles College Engineering and Technologies

2015-2016 Skills Certificate and Certificate of Achievement
Grades for all courses must be **"C"** or better.



Skills Certificate

A+ Certification Training

The East Los Angeles College Electronics Department offers an "A+ Certification Training" program. Students who successfully pass the program requirements are eligible to take the A+ Certification examination.

Subject	Course	Units	Completed
ELECTRN 120	A+ Certification Training	9	
TOTAL UNITS REQUIRED		9	

Engineering Graphics

The Engineering and Technologies Department offers an Engineering Graphics & Design Technology program leading to a skill certificate in Engineering Graphics, which includes instruction in both 2-D and 3-D Computer Aided Drafting software courses. The skill set is achievable in one semester with the completion of three courses (7 units). Many students take advantage of the value of this skill set by working in industry while continuing their education leading to a Certificate of Achievement.

Subject	Course	Units	Completed
EGD TEK 101	Engineering Graphics with Geometric Dimensioning and Tolerancing	3	
EGD TEK 111	2-D Computer-Aided Drafting with Autocad	2	
OR			
EGD TEK 112	2-D Computer-Aided Drafting with Microstation	2	
EGD TEK 121	3-D Computer-Aided Design with SolidWorks	2	
OR			
EGD TEK 122	3-D Computer-Aided Design with CATIA	2	
TOTAL UNITS REQUIRED		7	

Land Surveying Technician Skill Certificate I

Subject	Course	Units	Completed
ENG SUP 121	Plane Surveying I	3	
ENG SUP 221	Plane Surveying II	3	
TOTAL UNITS REQUIRED		6	

Land Surveying Technician Skill Certificate II

Subject	Course	Units	Completed
ENG SUP 224	Land Surveyors in Training Preparatory Course	2	
ENG SUP 225	Boundary Control	2	
TOTAL UNITS REQUIRED		4	

Certificates of Achievement

Engineering Graphics

The Engineering and Technologies Department offers a CAD program leading to a Certificate of Achievement that may enhance employment or promotion within industry, which is pursuable on a part time or full time basis. In addition to the skill set, students will complete 4 more courses (9 units) to fulfill the 16 units requirement for the Certificate of Achievement in Engineering Graphics. This certificate program prepares the student for an entry-level employment in the field of Engineering Graphics Technology (CAD) within the industry. Specialization during the coursework is possible in such fields as civil, electrical, mechanical and structural engineering.

Subject	Course	Units	Completed
EDG TEK 101	Engineering Graphic with Geometric Dimensioning and Tolerancing	3	
EDG TEK 111	2-D Computer-Aided Drafting with Autocad	2	
OR			
EDG TEK 112	2-D Computer-Aided Drafting with Microstation	2	
EDG TEK 121	3-D Computer-Aided Design with SolidWorks	2	
OR			
EDG TEK 122	3-D Computer-Aided Design with CATIA	2	
EDG TEK 131	CAD-Advanced Applications 3-D	1	
IND TEK 103	Technical Writing and Communication	2	
IND TEK 105	Industrial Print Reading	3	
IND TEK 106	Applied Math for Technology	2	
TOTAL UNITS REQUIRED		15	