

MECHANICAL MAINTENANCE TECHNOLOGY

LONG BEACH CITY COLLEGE Curriculum Guide for Academic Year of 2009-2010 Certificate of Achievement and/or Associate in Science

ALL INFORMATION CONTAINED HEREIN IS SUBJECT TO CHANGE WITHOUT NOTICE.



For possible updates to this guide please refer to the following website: <http://osca.lbcc.edu>

CAREER OPPORTUNITIES

This program gives students the comprehensive skills to maintain, diagnose, and repair mechanical and electrical equipment related to any heavy industry (i.e. transportation, shipping, and rail or refinery industry.)

DEPARTMENTAL ADMISSION REQUIREMENTS

None. For more departmental information call (562) 938-3053 or 938-3066.

	Students pursuing an Associate Degree for this field of concentration need to select from specific courses in general education disciplines. For a complete listing of courses or disciplines, refer to the Associate Degree information section of this guide OR view the guide online at http://osca.lbcc.edu .	
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REQUIRED COURSES	UNITS	In Progress	Completed Grade
DIESL 293AD General Engines	4		
DIESL 391A Hydraulics	3		
DIESL 492 Air & Hydraulic Brakes	3		
ELECT 202 Electrical Mathematics	3		
◆° ELECT 204 First Semester Fundamentals of DC Electricity	3		
◆° ELECT 210A Laboratory Practices 1 (DC)	1		
◆ Must enroll in ELECT 204 and ELECT 210A concurrently.			
†◆° ELECT 209 Second Semester Fundamentals of Motors/Generators	3		
◆° ELECT 210B Laboratory Practices 2 (AC)	1		
◆ Must enroll in ELECT 209 and ELECT 210B concurrently.			
AC/R 450A Transport Refrigeration	5		
† AC/R 450B Advanced Transport Refrigeration	5		
FORK 801 Forklift Safety & Operation	1		
WELD 400AD General Welding	2		
WELD 410AD Welding (Arc)	2		
WELD 480AD Welding (Inert Gas - MIG & TIG)	2		
Subtotal Units	38		
 ELECTIVES			
Select a minimum of THREE (3) Units from the following:			
◆† ELECT 212 Third Semester Fundamentals of AC Electricity	3		
◆ ELECT 210C Laboratory Practices 3 (AC)	1		
◆ Must enroll in ELECT 212 and ELECT 210C concurrently.			
AC/R 400A Uniform Mechanical Code I	3		
† AC/R 400B Uniform Mechanical Code II	3		
SHMET 220AD Surface Development and Fabrication	5		
Subtotal Units	3		

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LEGEND
<p>† This course has a prerequisite; prerequisite courses must be completed with at least a "C" or "P" grade (see catalog or schedule of classes).</p> <p>° ELECT 200A/B will be accepted as the equivalent of ELECT 204/209/210A/210B</p> <p>◆ Must enroll in the following courses concurrently: ELECT 204 with 210A, 209 with 210B, 212 with 210C</p>

RECOMMENDED COURSES

Recommended for Communication & Analytical Thinking:



† Math Requirement: Math 120, Math 130, Math 130A **OR** a more advanced level of Mathematics.

Recommended for Natural Sciences:



Environmental Science 1, Energy for the Future, **OR** † Chemistry 2, Elementary Chemistry.

GRADUATION REQUIREMENTS

For CERTIFICATE OF ACHIEVEMENT:

This certificate is a one to two year program in occupational/technical areas at Long Beach City College which provides training in job skills and employment opportunities. Complete the required units listed above with a minimum grade of "C" in each course. Fifty percent (50%) or more of the unit requirements for this field of concentration must be completed in residence (credit earned by exam, where applicable, may be included).

For ASSOCIATE IN SCIENCE DEGREE:

The Associate Degree is a two-year college degree awarded by Long Beach City College that includes general education courses and a major. In addition to the requirements for the Certificate of Achievement, complete the A.A. degree requirements specified in the Catalog. The requirements for general education/proficiency and the field of concentration 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"). Fifty percent (50%) or more of the unit requirements for this field of concentration must be completed in residence (credit earned by exam, where applicable, may be included).

NOTE: To receive a certificate or degree you must submit completed application forms in the Admissions and Records Office during your final semester of course work.

In general, "double-counting" is not allowed. That is, one course may not be used to fulfill both a field of concentration requirement and to fulfill a general education requirement.

Students interested in transferring to a university to continue their study in this field of concentration or other majors are strongly advised to consult an LBCC academic counselor and refer to the ASSIST website (www.assist.org) for major preparation information. Counselors can clarify the different major and admissions requirements at a university. Students may visit the Student Success/Transfer Services Center to access further educational resources. If you need to set up an appointment to see a counselor or schedule the SOAR Test, call LAC (562)938-4561 or PCC (562)938-3920.