

MECHANICAL MAINTENANCE TECHNOLOGY

Curriculum Guide for Academic Year 2011-2012

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Students planning to **transfer** to a four-year college or university should refer to the ASSIST web site at <u>www.assist.org</u> and **consult a counselor** before beginning a program of study. To meet with a counselor call 562-938-4561 for the LAC, or (562) 938-3920 for PCC. Students may also wish to visit the Transfer Center on either campus.

Program of study leading to:							
Associate in Science (A.S.) Degree							
<u>REC</u>					UNITS	In Progress	Completed Grade
	DIESL 293AD	General Engines			4		
	DIESL 391A	Hydraulics			3		
	DIESL 492	Air & Hydraulic Bral	kes		3		
	ELECT 202	Electrical Mathema	tics		3		
0	ELECT 204	First Semester Fun	damentals of DC Elec	ctricity	3		
0	ELECT 210A	Laboratory Practice (ELECT 204 & 21	es 1 10A must be taken co	ncurrently)	1		
†°	ELECT 209	Second Semester F	Fundamentals of Moto	ors/Generators	3		
0	ELECT 210B	Laboratory Practice	es 2		1		
		(ELECT 209 & 21	0B must be taken co	ncurrently)			
	AC_R 450A	Transport Refrigera			5		
†	AC_R 450B	Advanced Transpor	rt Refrigeration		5		
	FORK 801	Forklift Safety & Op	eration		1		
	WELD 400AD	Welding (General)			2		
	WELD 410AD	Welding (Arc)			2		
	WELD 480AD	Welding (Inert Gas)	1		2		
				Subtotal Units	38		
IN ADDITION, complete at least THREE (3) UNITS from the following:					UNITS		
†	ELECT 212	Third Semester Fur	ndamentals of AC Ele	ctricity	3		
	ELECT 210C	Laboratory Practice (ELECT 212 & 21	es 3 (AC) 10C must be taken co	ncurrently)	1		
	AC_R 400A	Uniform Mechanica	I Code I		3		
†	AC_R 400B	Uniform Mechanica	I Code II		3		
	SHMET 220	Basic Sheet Metal I	ayout and Fabricatio	n	4		
				Subtotal Units	3		
				TOTAL UNITS	41		
For graduation with an Associate in Science (A.S.) Degree with a major in Mechanical Maintenance Technology: 1. Units: Complete a minimum of 60 units, distributed as follows:							
			Mech. Maint. Tech	. Major : 4	1 units		
			General Education		9 units		
			Electives/Other co	ourses: C) units		
			TOTAL:	6	0 units		
Associate Degree requirements continue on the following page:							

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Departmental Phone: 562-938-3053 or 938-3066 Information on this sheet is subject to change without notice. Any updates to this guide are posted at http://osca.lbcc.edu. Associate Degree requirements continued from the previous page:

- 1. 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.
- Residence for the Degree: Complete at least 30 units of the required 60 in residence at LBCC, or complete in 2. residence at LBCC at least 20 units within the last 30 units of work applied to the degree.
- 3. 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 21 units of the required 41 must be completed at Long Beach City **College**. Credit earned by exam, where applicable, may be included.
- 4. 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.
- 5. 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".

Unless otherwise noted, "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.

Program of study leading to: **Certificate of Achievement**

REQUIRED COURSES—Complete the 41 units of required courses as listed in the Associate Degree requirements box on the first page.

REQUIRED COURSES

TOTAL UNITS

41

In Completed Progress

For graduation with a Mechanical Maintenance Technology Certificate of Achievement:

- Complete each of the REQUIRED COURSES listed above with a minimum grade of "C", or better, or "P" if course is 1. 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 21 units of the required 41 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 3. 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.

For both the Associate in Arts and the Certificate of Achievement, the following courses are recommended, BUT ARE NOT **REQUIRED** to earn either.

RECOMMENDED but not required courses:

RECOMMENDED FOR THE COMMUNICATION & ANALYTICAL THINKING General Education component:

Math Requirement: Complete Math 120[#] or 130[#] or 130A[#] OR a more advanced level of Mathematics[#].

RECOMMENDED FOR THE NATURAL SCIENCES General Education component:

ENVRS 1 (Energy for the Future) OR CHEM 2[#] (Elementary Chemistry).

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).

Program Mission and Outcomes

The Mission Statement and Student Learning Outcomes for the Mechanical Maintenance Technology program are under review. Please contact the department for further information.

<u>Legend</u>

† 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.

Elect 200A & 200B are acceptable substitutes for ELECT 204/210A & 209/210B.

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