

Northwest Louisiana Technical College

Charles T. Strong, Regional Director

P. O. Box 835 814 Constable Street Minden, Louisiana 71055-0835 318-371-3035 Fax 318-371-3055

October 17, 2013

Dr. Derrick Manns LCTCS Director of Educational Programs 265 South Foster Drive Baton Rouge, LA 70806

Dear Dr. Manns

Northwest Louisiana Technical College is requesting your recommendation and LCTCS Board approval of the following academic action:

Northwest Louisiana Technical College

a. New Technical Diploma in Industrial Manufacturing Technology (CIP: 150613) 45 credit hours and 1350 clock hours with concentrations in Automation and Controls, Millwright, Machine Tool Tech, and Industrial Instrumentation/Electrical Tech at the Natchitoches Campus and Minden Campuses.

Please place this item on the November LCTCS Board Agenda. Thank you for your help.

Regards

Laurie Morrow

Laurie D. Morrow Chief Academic Officer

Mansfield P.O. Box 1236 943 Oxford Road Mansfield, LA 71052 318-872-2243 Natchitoches P.O. Box 657 6587 Hwy 1 Bypass Natchitoches, LA 71457 318-357-3162 Sabine Valley P.O. Box 790 1255 Fisher Road Many, LA 71449 318-256-4101 Shreveport P.O. Box 78527 2010 North Market Street Shreveport, LA 71107 318-676-7811

INDUSTRIAL MANUFACTURING TECHNOLOGY (15.0613)

TECHNICAL DIPLOMA

SPECIAL COMMENTS: This degree consists of a core set of courses and 4 concentration areas from which the student can choose to make up the diploma.

Optional prep course is CPTR 1002 (Computer Literacy & Applications)

CURRICULUM

Course No.	Course Title	Lecture	Lab	Total	Total
				Credit Hrs.	Clock Hrs.
	CORE COURSES:				
ORNT 1000	Freshman Seminar	1	0	1	15
IMFG 1100	Introduction to Manufacturing	3	0	3	45
IMFG 1120	Tools and Equipment Used in Manufacturing	1	3	4	135
IMFG 1200	Automation	1	3	4	120
IMFG 1300	Introduction to Fabrication, Process	1	3	4	135
	Technology, & Machining				
	CTS – Certification for Manufacturing (C4M)			16	450
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	AUTOMATION AND CONTROLS CONCENTRATION		_		
IMFG 1140	Hydraulics Applications	0	3	3	90
IMFG 1130	Pneumatics Applications	0	2	2	90
IMFG 1215	Basic Electronics	2	2	4	90
IMFG 1220	Digital Electronics	1	2	3	105
	CTS- INDUSTRIAL ELECTRONICS TECHNICIAN			28	825
IMFG 1230	Introduction to Programming	1	2	3	105
IMFG 1235	Motor Controls	0	3	3	105
IMFG 1250	Advanced PLC Applications	0	3	3	105
	Elective or Co-op	0	3	3	90
	Elective or Co-op	0	3	3	90
JOBS 2450	Job Seeking Skills	2	0	2	30
	TD – AUTOMATION AND CONTROLS			45	1350
	CONCENTRATION				
11450 4330	MILLWRIGHT CONCENTRATION: (Core				
IMFG 1320	Millwright I	3	0	3	45
IMFG 1321	Millwright I Lab	0	2	2	90
IMFG 1420	Millwright II	2	0	2	60
IMFG 1421	Millwright II Lab	0	3	3	105
IMFG 1130	Pneumatics Applications	0	2	2	90
	CTS – MILLWRIGHT APPRENTICE			28	840
IMFG 1325	Pipefitting	0	2	2	60
IMFG 1140	Hydraulics Applications	0	3	3	90
IMFG 1210	Material Handling	1	1	2	60
IMFG 1315	Welding	0	2	2	90
	Elective or Co-op	0	3	3	90

	Elective or Co-op	0	3	3	90
JOBS 2450	Job Seeking Skills	2	0	2	30
	TD -MILLWRIGHT CONCENTRATION			45	1350
	MACHINE TOOL TECHNOLOGY CONCENTRATION				
IMFG 1110	Shop Mathematics	2	1	3	75
IMFG 1310	Machine Shop I	3	3	6	150
IMFG 1340	Basic Lathe	0	3	3	135
IMFG 1440	Basic Mill	0	3	3	135
	CTS-CNC OPERATOR			31	945
IMFG 1410	Machine Shop II	3	3	6	150
IMFG 2710	CNC	1	2	3	135
	Elective or Co-op	0	3	3	90
JOBS 2450	Job Seeking Skills	2	0	2	30
	TD – MACHINE TOOL TECHNOLOGY			45	1350
	CONCENTRATION				
INDU	JSTRIAL INSTRUMENTATION & ELECTRICAL CONCE	NTRATION	: (Core +	the followi	ng)
INST 1110	Introduction to Industrial Instrumentation	1	2	3	75
IIET 1433	Wiring/Electrical Blueprint Interpretation	2	1	3	90
IIET 1214	Basic Electronics	1	2	3	90
ELMT 2520					30
	National Electrical Code	0	2	2	90
	National Electrical Code CTS -	0	2	2 27	
IIET 2123		1	2		90
IIET 2123 IMFG 1235	CTS -			27	90 795
IMFG 1235	CTS - Understanding Programmable Controllers	1	2	27 3	90 795 90
IMFG 1235 INST 1330	CTS - Understanding Programmable Controllers Motor Controls	1 0	2 3	27 3 3	90 795 90 105
IMFG 1235 INST 1330 IIET 1413	CTS - Understanding Programmable Controllers Motor Controls Pressure and Level Measurement	1 0 1	2 3 3	27 3 3 4	90 795 90 105 150
IMFG 1235 INST 1330 IIET 1413	CTS - Understanding Programmable Controllers Motor Controls Pressure and Level Measurement Flow and Final Control	1 0 1 2	2 3 3 1	27 3 3 4 3	90 795 90 105 150
IMFG 1235 INST 1330 IIET 1413 IIET 2733	CTS - Understanding Programmable Controllers Motor Controls Pressure and Level Measurement Flow and Final Control Introduction to Temperature & Analytical	1 0 1 2	2 3 3 1	27 3 3 4 3	90 795 90 105 150
	CTS - Understanding Programmable Controllers Motor Controls Pressure and Level Measurement Flow and Final Control Introduction to Temperature & Analytical Processes	1 0 1 2 2	2 3 3 1 1	27 3 3 4 3 3	90 795 90 105 150 90