

Industrial Maintenance Technology Program (IMT) with emphasis in Aviation

OVERALL DESCRIPTION OF PROGRAM: This is a joint program between Malvern Independent School District (School District) and Ouachita Technical College (OTC). The primary goal of the program is to dramatically improve the graduation rate for Malvern High School through a “hands-on” curriculum in Industrial Maintenance Technology at Ouachita Technical College. This curriculum will provide OTC with additional students who will eventually transition to a job or will further their skills and knowledge at OTC upon completion of the IMT program and their graduation. This IMT Program will assist in the retention of high school students to graduate and focus more clearly on career goals that they want to pursue. The College desires to assist high school graduates to stop this period of wandering after their graduation and help them to shorten the transition from high school into a good paying industrial job with expertise in high demand skill sets that have been taught through the IMT program at OTC. As the high school student progresses through the IMT curriculum, we will encourage the students to enroll in college programs when they finish high school or pursue an industrial career in manufacturing or aviation.

The high school has chosen the national JAG program (Jobs for American Grads) which strongly addresses the high school drop-out rate. The students will continue their regular course of study including a JAG period and will then be transported to OTC where the students will spend 6th and 7th periods (12:55 to 2:35) on the OTC campus. This will comprise of approximately 94 minutes of instructional time. The students will leave OTC at the end of the 7th period for jobs that are required as part of the JAG program. These jobs have been pre-arranged by the high school in conjunction with the student. As an incentive the students in the JAG program will be released for the 8th and final period of the school day for transition to their jobs.

When successful, the program should increase the number of students receiving their high school diplomas and will enhance their ability to enter college or to move directly into a good paying job in business or industry.

DESCRIPTION OF OUACHITA TECHNICAL COLLEGE’S INDUSTRIAL MAINTENANCE TECHNOLOGY PROGRAM (IMT): After surveying many of the industries in the five-county College service area, it was learned that many skilled workers are needed specifically in the skill sets related to the Mill Wright Job Description. To provide a broader base of expertise, we have adopted the Industrial Maintenance Technology (IMT) approach that will contain four of the primary Mill Wright skill sets as follows: 1) Basic Blue Print and Schematic Principles; 2) Introduction to Machine Shop Techniques and Tools; 3) Basic Electricity; and 4) Introduction to Hydraulics including Pneumatics and Rigging. The IMT program will be further divided into two separate content areas which will include IMT/Aviation and IMT/General Industry. The four primary skill sets listed above will be the cornerstone of each of the selected subject areas. Welding was

also considered but will be incorporated as an essential part of all four skill sets. The IMT/Aviation subject area will be offered first, with all four of the primary skill sets being taught as they apply to the Aviation industry. The second semester related labs will be added to further the skill knowledge. During this time, there will be another adjunct Instructor added to accommodate the growth in the number of students for the second year. The IMT Program will utilize the Industrial Training Advisory Council (ITAC) for industrial tours, part-time jobs and guest instruction. OTC is a member of an Aerospace Consortium that includes eight two-year colleges.

COURSE DESCRIPTION: Industrial Maintenance Technology/Aviation (IMT/A) This course will provide practical training and applications with regard to Industrial Maintenance Technology as related to the aviation industry. The students will be taught Basic Blueprint and Schematics, Introduction to Machine Shop Techniques and Tools, Basic Electricity, and Introduction to Hydraulics including Pneumatics and Rigging Techniques. Hands-on labs will be utilized and will address safety issues and the practical application of the required skill sets listed above. The course will also include an introduction to the aviation industry with emphasis on history and future trends.

ADJUNCT INSTRUCTOR: Mr. Chad Cox is the first Adjunct Instructor for the Industrial Maintenance Technology (IMT) program.

For more information, please contact Mr. Mike Kolb, Manager of Business and Industry Education at Ouachita Technical College at 501-332-0249.