SYLLABUS AG POWER AND MACHINERY

A. <u>EMPLOYABILITY CHARACTERISTICS OF A SUCCESSFUL WORKER IN</u> THE MODERN WORKPLACE

- IDENTIFY CAREER DEVELOPMENT AND ENTREPRENEURSHIP OPPORTUNITIES IN THE FIELD OF MECHANIZED AGRICULTURE
- APPLY COMPETENCIES RELATED TO RESOURCES, INFORMATION, INTERPERSONAL SKILLS, AND SYSTEMS OF OPERATION OF MECHANIZED AGRICULTURE
- DEMONSTRATE KNOWLEDGE OF PERSONAL AND OCCUPATIONAL SAFETY PRACTICES IN THE WORKPLACE
- IDENTIFY EMPLOYERS' EXPECTATIONS, APPROPRIATE WORK HABITS, AND GOOD CITIZENSHIP SKILLS
- PLAN AND MANAGE SUPERVISED AGRICULTURAL EXPERIENCE PROGRAMS

B. <u>TECHNICAL KNOWLEDGE AND ENTRY LEVEL WORKPLACE SKILLS IN</u> <u>THE INTERRELATED MECHANIZED AGRICULTURAL SYSTEMS</u>

- IDENTIFY AND SELECT AGRICULTURAL POWER SYSTEMS AND EQUIPMENT
- DIAGNOSE POWER SYSTEM CONDITIONS
- SERVICE AND REPAIR SMALL GASOLINE ENGINES
- SET UP, ADJUST, OPERATE, AND MAINTAIN AGRICULTURAL MACHINERY AND EQUIPMENT

C. MECHANIZED AGRICULTURE REPAIR SKILLS

- EXPLAIN THE OPERATION OF ELECTRIC AND OXY-FUEL WELDING PROCEDURES
- PERFORM SOLDERING AND COLD METAL SKILLS AND TOOL MAINTENANCE

D. <u>DEMOSTRATE PRINCIPLES AND PRACTICES RELATING TO AGRICULTURAL STRUCTURES</u>

- IDENTIFY, PLAN, AND CONSTRUCT AGRICULTURAL STRUCTURES
- DEMONSTRATE THE USE OF CONCRETE AND MASONRY IN AGRICULTURAL CONSTRUCTION
- PERFORM ELECTRICAL WIRING SKILLS
- SELECT AND MAINTAIN ELECTRICAL MOTORS AND CONTROLS FOR AGRICULTURAL APPLICATIONS

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STUDENT SIGNATURE	