

***AGRICULTURAL MECHANICS
TECHNOLOGY
CURRICULUM FRAMEWORK***



This document was prepared by:

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INTRODUCTION

The Nevada CTE Curriculum Frameworks are a resource for Nevada's public and charter schools to design, implement, and assess their CTE programs and curriculum. The content standards identified in this document are listed as a model for the development of local district programs and curriculum. They represent rigorous and relevant expectations for student performance, knowledge, and skill attainment which have been validated by industry representatives.

The intent of this document is to provide a resource to districts as they develop and implement CTE programs and curricula.

This program ensures the following thresholds are met:

- The CTE course and course sequence teaches the knowledge and skills required by industry through applied learning methodology and, where appropriate, work-based learning experiences that prepare students for careers in high-wage, high-skill and/or high-demand fields. Regional and state economic development priorities shall play an important role in determining program approval. Some courses also provide instruction focused on personal development.
- The CTE course and course sequence includes leadership and employability skills as an integral part of the curriculum.
- The CTE course and course sequence are part of a rigorous program of study and include sufficient technical challenge to meet state and/or industry-standards.

The CTE program components include the following items:

- Program of Study
- State Skill Standards
- Employability Skills for Career Readiness Standards
- Career Technical Student Organizations (CTSO)
- Curriculum Framework
- CTE Assessments:
 - Workplace Readiness Skills Assessment
 - End-of-Program Technical Assessment
- Certificate of Skill Attainment
- CTE Endorsement on a High School Diploma
- CTE College Credit

**NEVADA DEPARTMENT OF EDUCATION
CURRICULUM FRAMEWORK FOR
AG MET EQUIPMENT FABRICATION SYSTEMS**

PROGRAM TITLE:	AGRICULTURAL MECHANICS TECHNOLOGY
STATE SKILL STANDARDS:	AGRICULTURAL MECHANICS TECHNOLOGY
STANDARDS REFERENCE CODE:	AMT
CAREER CLUSTER:	AGRICULTURE, FOOD AND NATURAL RESOURCES
CAREER PATHWAY:	POWER, STRUCTURAL AND TECHNICAL SYSTEMS
PROGRAM LENGTH:	3 LEVELS (L1, L2, L3C)
PROGRAM ASSESSMENT	AGRICULTURAL MECHANICS TECHNOLOGY WORKPLACE READINESS SKILLS
CTSO:	FFA
GRADE LEVEL:	9-12
AVAILABLE INDUSTRY CERTIFICATIONS/LICENSES PROVIDERS:	AWS CERTIFICATION - AWS CAREERSAFE - OSHA

PROGRAM PURPOSE

The purpose of this program is to prepare students for postsecondary education and employment in the Agricultural Mechanics Technology industry.

The program includes the following state standards:

- Nevada CTE Skill Standards: Agricultural Mechanics Technology
- Employability Skills for Career Readiness
- Nevada Academic Content Standards (alignment shown in the Nevada CTE Skill Standards):
 - Science (based on the Next Generation Science Standards)
 - English Language Arts (based on the Common Core State Standards)
 - Mathematics (based on the Common Core State Standards)
- Common Career Technical Core (alignment shown in the Nevada CTE Skill Standards)

CAREER CLUSTERS

The National Career Clusters™ Framework provides a vital structure for organizing and delivering quality CTE programs through learning and comprehensive programs of study (POS). In total, there are 16 Career Clusters in the National Career Clusters™ Framework, representing more than 79 Career Pathways to help students navigate their way to greater success in college and career. As an organizing tool for curriculum design and instruction, Career Clusters™ provide the essential knowledge and skills for the 16 Career Clusters™ and their Career Pathways.*

*Cite: National Association of State Directors of Career Technical Education Consortium. (2012). Retrieved from <http://www.careertech.org/career-clusters/glance/careerclusters.html>

PROGRAM OF STUDY

The program of study illustrates the sequence of academic and career and technical education coursework that is necessary for the student to successfully transition into postsecondary educational opportunities and employment in their chosen career path. (NAC 389.803)

PROGRAM STRUCTURE

The core course sequencing provided in the following table serves as a guide to schools for their programs of study. Each course is listed in the order in which it should be taught and has a designated level. Complete program sequences are essential for the successful delivery of all state standards in each program area.

AGRICULTURAL MECHANICS TECHNOLOGY	
Core Course Sequence	
COURSE NAME	LEVEL
Agricultural Mechanics Technology I	L1
Agricultural Mechanics Technology II	L2
Agricultural Mechanics Technology III	L3C

The core course sequencing with the complementary courses provided in the following table serves as a guide to schools for their programs of study. Each course is listed in the order in which it should be taught and has a designated level. A program does not have to utilize all of the complementary courses in order for their students to complete their program of study. Complete program sequences are essential for the successful delivery of all state standards in each program area.

AG MET EQUIPMENT FABRICATION SYSTEMS	
Core Course Sequence with Complementary Courses	
COURSE NAME	LEVEL
Agricultural Mechanics Technology I	L1
Agricultural Mechanics Technology II	L2
Agricultural Mechanics Technology III	L3C
Agricultural Mechanics Technology Advanced Studies*	AS

*Complementary Courses

STATE SKILL STANDARDS

The state skill standards are designed to clearly state what the student should know and be able to do upon completion of an advanced high school career and technical education (CTE) program. The standards are designed for the student to complete all standards through their completion of a program of study. The standards are designed to prepare the student for the end-of-program technical assessment directly aligned to the standards. (Paragraph (a) of Subsection 1 of NAC 389.800)

EMPLOYABILITY SKILLS FOR CAREER READINESS STANDARDS

Employability skills, often referred to as “soft skills”, have for many years been a recognizable component of the standards and curriculum in career and technical education programs. The twenty-one standards are organized into three areas: (1) Personal Qualities and People Skills; (2) Professional Knowledge and Skills; and (3) Technology Knowledge and Skills. The standards are designed to ensure students graduate high school properly prepared with skills employers prioritize as the most important. Instruction on all twenty-one standards must be part of each course of the CTE program. (Paragraph (d) of Subsection 1 of NAC 389.800)

CURRICULUM FRAMEWORK

The Nevada CTE Curriculum Frameworks are organized utilizing the recommended course sequencing listed in the Program of Study and the CTE Course Catalog. The framework identifies the recommended content standards, performance standards, and performance indicators that should be taught in each course

CAREER AND TECHNICAL STUDENT ORGANIZATIONS (CTSOS)

To further the development of leadership and technical skills, students must have opportunities to participate in one or more of the Career and Technical Student Organizations (CTSOS). CTSOs develop character, citizenship, and the technical, leadership and teamwork skills essential for the workforce and their further education. Their activities are considered a part of the instructional day when they are directly related to the competencies and objectives in the course. (Paragraph (a) of Subsection 3 of NAC 389.800)

WORKPLACE READINESS SKILLS ASSESSMENT

The Workplace Readiness Skills Assessment has been developed to align with the Nevada CTE Employability Skills for Career Readiness Standards. This assessment provides a measurement of student employability skills attainment. Students who complete a program will be assessed on their skill attainment during the completion level course. Completion level courses are identified by the letter “C”. (e.g., Level = L3C) (Paragraph (d) of Subsection 1 of NAC 389.800)

END-OF-PROGRAM TECHNICAL ASSESSMENT

An end-of-program technical assessment has been developed to align with the Nevada CTE Skill Standards for this program. This assessment provides a measurement of student technical skill attainment. Students who complete a program will be assessed on their skill attainment during the completion level course. Completion level courses are identified by the letter “C”. (e.g., Level = L3C) (Paragraph (e) of Subsection 1 of NAC 389.800)

CERTIFICATE OF SKILL ATTAINMENT

Each student who completes a course of study must be awarded a certificate which states that they have attained specific skills in the industry being studied and meets the following criteria: A student must maintain a 3.0 grade point average in their approved course of study, pass the Workplace Readiness Skills Assessment, and pass the end-of-program technical assessment. (Subsection 4 of NAC 389.800)

CTE ENDORSEMENT ON A HIGH SCHOOL DIPLOMA

A student qualifies for a CTE endorsement on their high school diploma after successfully completing the following criteria: 1) successful completion of a CTE course of study in a program area, 2) successful completion of academic requirements governing receipt of a standard diploma, and 3) meet all requirements for the issuance of the Certificate of Skill Attainment. (NAC 389.815)

CTE COLLEGE CREDIT

CTE College Credit is awarded to students based on articulation agreements established by each college for the CTE program, where the colleges will determine the credit value of a full high school CTE program based on course alignment. An articulation agreement will be established for each CTE program designating the number of articulated credits each college will award to students who complete the program.

CTE College Credit is awarded to students who: (1) complete the CTE course sequence with a grade-point average of 3.0 or higher; (2) pass the state end-of-program technical assessment for the program; and (3) pass the Workplace Readiness Assessment for employability skills.

Pre-existing articulation agreements will be recognized until new agreements are established according to current state policy and the criteria shown above.

Please refer to the local high school's course catalog or contact the local high school counselor for more information. (Paragraph (b) of Subsection 3 of NAC 389.800)

ACADEMIC CREDIT FOR CTE COURSEWORK

Career and technical education courses meet the credit requirements for high school graduation (1 unit of arts and humanities or career and technical education). Some career and technical education courses meet academic credit for high school graduation. Please refer to the local high school's course catalog or contact the local high school counselor for more information. (NAC 389.672)

**CORE COURSE:
RECOMMENDED STUDENT PERFORMANCE STANDARDS**

COURSE TITLE:	Agricultural Mechanics Technology I
ABBR. NAME:	AG MECH TECH I
CREDITS:	1
LEVEL:	L1
CIP CODE:	01.0205
PREREQUISITE:	None
CTSO:	FFA
COURSE DESCRIPTION	
<p>This course will introduce students into the foundation skills necessary for agriculture mechanics and industry employment. Areas of study may include general shop safety, basic welding, electrical applications, water management, agricultural drafting and construction, engines and power, and machinery maintenance and repair. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.</p>	

TECHNICAL STANDARDS

CONTENT STANDARD 1.0 : DEMONSTRATE GENERAL SHOP SAFETY PROCEDURES

Performance Standard 1.1 : Understand Personal and Group Safety

Performance Indicators : 1.1.1-1.1.8

CONTENT STANDARD 2.0 : DEMONSTRATE SAFE AND PROPER WELDING PROCEDURES

Performance Standard 2.1 : Demonstrate Safe and Proper Techniques in Oxy/Fuel Cutting (OFC)

Performance Indicators : 2.1.1-2.1.5

Performance Standard 2.2 : Demonstrate Safe and Proper Techniques in Shielded Metal Arc Welding (SMAW)

Performance Indicators : 2.2.1-2.2.7

CONTENT STANDARD 3.0 : UNDERSTAND THE PRINCIPLES OF ELECTRICITY IN AGRICULTURE

Performance Standard 3.1 : Understand Principles and Theories of Electricity

Performance Indicators : 3.1.1-3.1.4

Performance Standard 3.2 : Apply the Principles and Theories of Electrical Circuits

Performance Indicators : 3.2.1-3.2.3

CONTENT STANDARD 5.0 : UNDERSTAND PRINCIPLES AND APPLICATIONS IN AGRICULTURAL CONSTRUCTION

Performance Standard 5.1 : Demonstrate Practices, Applications and Procedures of Drafting in Agricultural Projects

Performance Indicators : 5.1.1-5.1.3

Performance Standard 5.2 : Demonstrate Practices and Procedures in Construction of Agricultural Projects

Performance Indicators : 5.2.1-5.2.2

CONTENT STANDARD 8.0 : IDENTIFY AND DEMONSTRATE THE PROPER USE OF AGRICULTURAL HAND AND POWER TOOLS

Performance Standard 8.1 : Identify General Shop Hand and Power Tools

Performance Indicators : 8.1.1

Performance Standard 8.2 : Demonstrate Appropriate Procedures for the Maintenance and Repair of Hand Tools

Performance Indicators : 8.2.1-8.2.2

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CONTENT STANDARD 11.0 : DESCRIBE THE RELATIONSHIP BETWEEN A SUPERVISED AGRICULTURAL EXPERIENCE (SAE) AND PREPARATION OF STUDENTS FOR A CAREER IN AGRICULTURE

Performance Standard 11.1 : Actively Develop and Participate in Supervised Agricultural Experience, Which Enables Students to Obtain Work-Based Skills

Performance Indicators : 11.1.1-11.1.3

CONTENT STANDARD 12.0 : PARTICIPATE IN LEADERSHIP TRAINING THROUGH MEMBERSHIP IN FFA

Performance Standard 12.1 : Recognize the Traits of Effective Leaders and Participate in Leadership Training Through Involvement in FFA

Performance Indicators : 12.1.1-12.1.5

Performance Standard 12.2 : Understand the Opportunities in FFA

Performance Indicators : 12.2.1-12.2.3

Performance Standard 12.3 : Understand the Importance of School and Community Awareness

Performance Indicators : 12.3.1-12.3.3

EMPLOYABILITY SKILLS FOR CAREER READINESS STANDARDS**CONTENT STANDARD 1.0 : DEMONSTRATE EMPLOYABILITY SKILLS FOR CAREER READINESS**

Performance Standard 1.1 : Demonstrate Personal Qualities and People Skills

Performance Indicators : 1.1.1-1.1.7

Performance Standard 1.2 : Demonstrate Professional Knowledge and Skills

Performance Indicators : 1.2.1-1.2.10

Performance Standard 1.3 : Demonstrate Technology Knowledge and Skills

Performance Indicators : 1.3.1-1.3.4

ALIGNMENT TO THE NEVADA ACADEMIC CONTENT STANDARDS*

English Language Arts: Reading Standards for Literacy in Science and Technical Subjects
Writing Standards for Literacy in Science and Technical Subjects
Speaking and Listening

Mathematics: Mathematical Practices
Math: Number & Quantity – Quantities
Math: Algebra – Creating Equations

Science: Nature of Science
Physical Science

* Refer to the Agricultural Mechanics Technology Standards for alignment by performance indicator

**CORE COURSE:
RECOMMENDED STUDENT PERFORMANCE STANDARDS**

COURSE TITLE:	Agricultural Mechanics Technology II
ABBR. NAME:	AG MECH TECH II
CREDITS:	1
LEVEL:	L2
CIP CODE:	01.0205
PREREQUISITE:	Agricultural Mechanics Technology I
CTSO:	FFA
COURSE DESCRIPTION	
<p>This course is a continuation of Agricultural Mechanics Technology I. It allows intermediate agriculture students to expand on skills and knowledge from Agricultural Mechanics Technology I. Areas of study may include general shop safety, basic welding, electrical applications, water management, agricultural drafting and construction, engines and power, and machinery maintenance and repair. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>	

TECHNICAL STANDARDS

CONTENT STANDARD 1.0 : DEMONSTRATE GENERAL SHOP SAFETY PROCEDURES

Performance Standard 1.1 : Understand Personal and Group Safety

Performance Indicators : 1.1.1-1.1.8

CONTENT STANDARD 2.0 : DEMONSTRATE SAFE AND PROPER WELDING PROCEDURES

Performance Standard 2.1 : Demonstrate Safe and Proper Techniques in Oxy/Fuel Cutting (OFC)

Performance Indicators : 2.1.1-2.1.5

Performance Standard 2.2 : Demonstrate Safe and Proper Techniques in Shielded Metal Arc Welding (SMAW)

Performance Indicators : 2.2.1-2.2.7

CONTENT STANDARD 4.0 : UNDERSTAND WATER AND WASTEWATER MANAGEMENT IN AGRICULTURAL AND INDUSTRIAL SETTINGS

Performance Standard 4.1 : Demonstrate Safe Practices and Procedures in Agricultural and Industrial Water Management

Performance Indicators : 4.1.1-4.1.2

Performance Standard 4.2 : Demonstrate Basic Pipe Fitting Skills

Performance Indicators : 4.2.1-4.2.2

CONTENT STANDARD 6.0 : UNDERSTAND PRINCIPLES AND APPLICATIONS OF SINGLE AND MULTIPLE CYLINDER ENGINES

Performance Standard 6.1 : Demonstrate Safe Practices and Procedures of the Operation, Maintenance and Repair of Small Gas Engines and Equipment

Performance Indicators : 6.1.1-6.1.2

Performance Standard 6.2 : Demonstrate a Working Knowledge of the Essential Engine Operating Systems

Performance Indicators : 6.2.1-6.1.3

Performance Standard 6.3 : Recognize Appropriate Power Attachments and Their Applications

Performance Indicators : 6.3.1-6.3.2

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CONTENT STANDARD 7.0 : DEMONSTRATE BASIC SKILLS IN OPERATION, MAINTENANCE AND REPAIR OF AGRICULTURAL MACHINERY

Performance Standard 7.1 : Demonstrate Safe Practices and Procedures of Operation, Maintenance and Repair of Agricultural Machinery and Equipment

Performance Indicators : 7.1.1-7.1.7

CONTENT STANDARD 8.0 : IDENTIFY AND DEMONSTRATE THE PROPER USE OF AGRICULTURAL HAND AND POWER TOOLS

Performance Standard 8.1 : Identify General Shop Hand and Power Tools

Performance Indicators : 8.1.1

Performance Standard 8.2 : Demonstrate Appropriate Procedures for the Maintenance and Repair of Hand Tools

Performance Indicators : 8.2.1-8.2.3

CONTENT STANDARD 11.0 : DESCRIBE THE RELATIONSHIP BETWEEN A SUPERVISED AGRICULTURAL EXPERIENCE (SAE) AND PREPARATION OF STUDENTS FOR A CAREER IN AGRICULTURE

Performance Standard 11.1 : Actively Develop and Participate in Supervised Agricultural Experience, Which Enables Students to Obtain Work-Based Skills

Performance Indicators : 11.1.1-11.1.3

CONTENT STANDARD 12.0 : PARTICIPATE IN LEADERSHIP TRAINING THROUGH MEMBERSHIP IN FFA

Performance Standard 11.1 : Recognize the Traits of Effective Leaders and Participate in Leadership Training Through Involvement in FFA

Performance Indicators : 12.1.1, 12.1.4

Performance Standard 11.2 : Understand the Opportunities in FFA

Performance Indicators : 12.2.1-12.2.3

Performance Standard 11.3 : Understand the Importance of School and Community Awareness

Performance Indicators : 12.3.3

EMPLOYABILITY SKILLS FOR CAREER READINESS STANDARDS**CONTENT STANDARD 1.0 : DEMONSTRATE EMPLOYABILITY SKILLS FOR CAREER READINESS**

Performance Standard 1.1 : Demonstrate Personal Qualities and People Skills

Performance Indicators : 1.1.1-1.1.7

Performance Standard 1.2 : Demonstrate Professional Knowledge and Skills

Performance Indicators : 1.2.1-1.2.10

Performance Standard 1.3 : Demonstrate Technology Knowledge and Skills

Performance Indicators : 1.3.1-1.3.4

ALIGNMENT TO THE NEVADA ACADEMIC CONTENT STANDARDS*

English Language Arts: Reading Standards for Literacy in Science and Technical Subjects
Writing Standards for Literacy in Science and Technical Subjects
Speaking and Listening

Mathematics: Mathematical Practices

Science: Nature of Science
Physical Science
Earth and Space

* Refer to the Agricultural Mechanics Technology Standards for alignment by performance indicator

**CORE COURSE:
RECOMMENDED STUDENT PERFORMANCE STANDARDS**

COURSE TITLE:	Agricultural Mechanics Technology III
ABBR. NAME:	AG MECH TECH III
CREDITS:	1
LEVEL:	L3C
CIP CODE:	01.0205
PREREQUISITE:	Agricultural Mechanics Technology II
CTSO:	FFA
COURSE DESCRIPTION	
<p>This course is a continuation of Agricultural Mechanics Technology II. This course provides advanced agriculture students with instructions in advanced techniques and processes such as electrical controls and maintenance; basic construction and pipe fitting techniques; welding: GMAW, GTAW, and plasma cutting; agricultural machinery operation and repair; hydraulics; and electrical power, motor and control systems. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>	

TECHNICAL STANDARDS

CONTENT STANDARD 1.0 : DEMONSTRATE GENERAL SHOP SAFETY PROCEDURES

Performance Standard 1.1 : Understand Personal and Group Safety

Performance Indicators : 1.1.1-1.1.8

CONTENT STANDARD 2.0 : DEMONSTRATE SAFE AND PROPER WELDING PROCEDURES

Performance Standard 2.1 : Demonstrate Safe and Proper Techniques in Oxy/Fuel Cutting (OFC)

Performance Indicators : 2.1.1-2.1.5

Performance Standard 2.2 : Demonstrate Safe and Proper Techniques in Shielded Metal Arc Welding (SMAW)

Performance Indicators : 2.2.1-2.2.7

Performance Standard 2.3 : Demonstrate Safe and Proper Techniques in Gas Metal Arc Welding (GMAW)

Performance Indicators : 2.3.1-2.3.5

Performance Standard 2.4 : Demonstrate Safe and Proper Techniques in Gas Tungsten Arc Welding (GTAW)

Performance Indicators : 2.4.1-2.4.5

Performance Standard 2.5 : Demonstrate Safe and Proper Techniques in Plasma Cutting (PAC) Procedures

Performance Indicators : 2.5.1-2.5.5

CONTENT STANDARD 5.0 : UNDERSTAND PRINCIPLES AND APPLICATIONS IN AGRICULTURAL CONSTRUCTION

Performance Standard 5.1 : Demonstrate Practices, Applications and Procedures of Drafting in Agricultural Projects

Performance Indicators : 5.1.1-5.1.3

Performance Standard 5.2 : Demonstrate Practices and Procedures in Construction of Agricultural Projects

Performance Indicators : 5.2.1-5.2.2

CONTENT STANDARD 8.0 : IDENTIFY AND DEMONSTRATE THE PROPER USE OF AGRICULTURAL HAND AND POWER TOOLS

Performance Standard 8.1 : Identify General Shop Hand and Power Tools

Performance Indicators : 8.1.1

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Performance Standard 8.2 : Demonstrate Appropriate Procedures for the Maintenance and Repair of Hand Tools

Performance Indicators : 8.2.1-8.2.3

CONTENT STANDARD 9.0 : DEMONSTRATE THE OPERATION, MAINTENANCE AND USE OF ELECTRICAL POWER, MOTORS AND CONTROLS IN AGRICULTURAL APPLICATIONS

Performance Standard 9.1 : Demonstrate Procedures Associated with the Operation, Maintenance and Repair of Electrical Power

Performance Indicators : 9.1.1-9.1.5

CONTENT STANDARD 10.0 : UNDERSTAND AGRICULTURAL HYDRAULIC SYSTEMS

Performance Standard 10.1 : Demonstrate Knowledge of the Basic Principles, Operation and Maintenance of Hydraulics Systems in the Agricultural Industry

Performance Indicators : 10.1.1-10.1.5

CONTENT STANDARD 11.0 : DESCRIBE THE RELATIONSHIP BETWEEN A SUPERVISED AGRICULTURAL EXPERIENCE (SAE) AND PREPARATION OF STUDENTS FOR A CAREER IN AGRICULTURE

Performance Standard 11.1 : Actively Develop and Participate in Supervised Agricultural Experience, Which Enables Students to Obtain Work-Based Skills

Performance Indicators : 11.1.1-11.1.3

CONTENT STANDARD 12.0 : PARTICIPATE IN LEADERSHIP TRAINING THROUGH MEMBERSHIP IN FFA

Performance Standard 12.1 : Recognize the Traits of Effective Leaders and Participate in Leadership Training Through Involvement in FFA

Performance Indicators : 12.1.1, 12.1.4

Performance Standard 12.2 : Understand the Opportunities in FFA

Performance Indicators : 12.2.1-12.2.3

Performance Standard 11.3 : Understand the Importance of School and Community Awareness

Performance Indicators: 12.3.3

EMPLOYABILITY SKILLS FOR CAREER READINESS STANDARDS

CONTENT STANDARD 1.0 : DEMONSTRATE EMPLOYABILITY SKILLS FOR CAREER READINESS

Performance Standard 1.1 : Demonstrate Personal Qualities and People Skills

Performance Indicators : 1.1.1-1.1.7

Performance Standard 1.2 : Demonstrate Professional Knowledge and Skills

Performance Indicators : 1.2.1-1.2.10

Performance Standard 1.3 : Demonstrate Technology Knowledge and Skills

Performance Indicators : 1.3.1-1.3.4

ALIGNMENT TO THE NEVADA ACADEMIC CONTENT STANDARDS*

English Language Arts: Reading Standards for Literacy in Science and Technical Subjects
Writing Standards for Literacy in Science and Technical Subjects
Speaking and Listening

Mathematics: Mathematical Practices

Science: Nature of Science
Physical Science

* Refer to the Agricultural Mechanics Technology Standards for alignment by performance indicator

COMPLEMENTARY COURSE(S):

Programs that utilize the complementary courses can include the following courses. The Advanced Studies course allows for additional study through investigation and in-depth research.

COURSE TITLE:	AG MET Advanced Studies
ABBR. NAME:	AG MET AS
CREDITS:	1
LEVEL:	AS
CIP CODE:	01.0201
PREREQUISITE:	AG MET Equipment Fabrication Systems
CTSO:	FFA
COURSE DESCRIPTION	
<p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>	

TECHNICAL STANDARDS

Students have achieved all program content standards and will pursue advanced study through investigation and in-depth research.

EMPLOYABILITY SKILLS FOR CAREER READINESS STANDARDS

Students have achieved all program content standards and will pursue advanced study through investigation and in-depth research.

SAMPLE TOPICS

- Participate in individual/team competitions
- Investigate and utilize shop management techniques and procedures
- Participation in an internship or job shadow opportunities
- Develop Leadership Skills
- Explore college and career opportunities