



Course Syllabus

COURSE: EMSP 2330.200 Special Populations
SEMESTER: Summer 2025
CLASS TIMES: Monday-Tuesday 8:30am-1:20pm
INSTRUCTOR: Russell Powers, BA, LP, NRP
OFFICE: Reese Center, Building 2, Room 215C
OFFICE HOURS: Monday thru Thursday 1:30-3:30pm and Friday 9:00-11:00 or by appointment
OFFICE PHONE: 806-716-4627
E-MAIL: rpowers@southplainscollege.edu

“South Plains College improves each student’s life.”

GENERAL COURSE INFORMATION

It is the responsibility of each student to be familiar with the content and requirements listed in the course syllabus.

MISSION STATEMENT

To prepare competent entry-level Emergency Medical Technician-Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technicians, and/or Emergency Medical Responder levels

COURSE DESCRIPTION

This course includes a detailed study of the knowledge and skills necessary to reach competence in introduction to advance practice.

STUDENT LEARNING OUTCOMES

At the completion of the semester students will:
1. Understand the roles and responsibilities of a Paramedic within an EMS System.
2. Be able to apply the advanced concepts of development, pathophysiology, cardiology, medical emergencies, traumatic emergencies, and special populations in the assessment and management of emergency patients.
3. Be able to take a history and perform a comprehensive physical exam on any patient and communicate those findings to others.
4. Be able to communicate effectively with patients, co-workers and other health care professionals.
5. Be able to establish and/or maintain a patent airway, oxygenate, and ventilate a patient.
6. Be able to recognize and treat minor and life threatening emergencies of all natures in regards to the pre-hospital setting.

COURSE OBJECTIVES - Outline form (C-1, C-5, C-6, C-7, C-8, C-9, C-12, C-13, C-14, C-18, C-20; F-1, F-2, F-5, F-7, F-8, F-9, F-11, F-12, F-13, F-16, F-17)

At the completion of this course the student will have:
<ul style="list-style-type: none">The cognitive, psychomotor, and affective competencies in the recognition and treatment of prehospital emergencies.
<ul style="list-style-type: none">The cognitive, psychomotor, and affective competencies of prehospital patient assessment and airway management emergencies.
<ul style="list-style-type: none">The cognitive, psychomotor, and affective competencies of prehospital utilization of medications in treating emergency situations.
<ul style="list-style-type: none">The cognitive, psychomotor and affective competencies of pre-hospital cardiac emergencies at the AEMT entry-level.

EVALUATION METHODS

Computer-based exams, written exams, written assignments, quizzes, psychomotor exams, and other projects as assigned.

ACADEMIC INTEGRITY

It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension.

Cheating - Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in the office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of coursework. This applies to quizzes of whatever length, as well as final examinations, to daily reports and to term papers.

Any assignment **0 or F** will be given on any assignment or test that cheating was utilized. Offender maybe liable for being dropped from the course at the discretion of the instructor.

Plagiarism - Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from themes, reports or other writings of a fellow student, is guilty of plagiarism.

BLACKBOARD

Blackboard is an e-Education platform designed to enable educational innovations everywhere by connecting people and technology. This educational tool will be used in this course throughout the semester.

SCANS and FOUNDATION SKILLS

Refer also to Course Objectives. Scans and Foundation Skills attached

DROPPING A CLASS

Students should submit a [Student Initiated Drop Form](#) online.

Students will not be required to obtain an instructor signature to drop, however, we do encourage students to communicate with instructors or advisors prior to dropping a course when they are able. **There will be no charge for drops for the fall or spring semesters.**

WITHDRAWING FROM ALL CLASSES

If a student wishes to withdraw from all courses, they should initiate that process with the Advising Office. They can schedule an appointment with an advisor by visiting <http://www.southplainscollege.edu/admission-aid/advising/spcadvisors.php> or by calling 806-716-2366.

SCHEDULE CHANGE (after late registration and before census date)

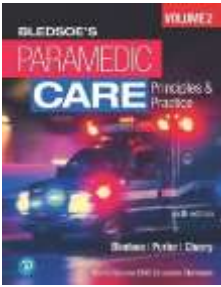
To make a schedule change after late registration and before the census date, students should submit a [Schedule Change Form](#).

After late registration, adding a class requires instructor approval. If a student is requesting to be added to one of your courses and you approve, please email registrar@southplainscollege.edu with your approval. This can take the place of signature on the Schedule Change Form that we have required in the past.

SPECIFIC COURSE INFORMATION

TEXT AND MATERIALS

TEXTBOOK



Paramedic Care: Principles & Practice, Volume 2, 6th Edition

Publisher: Pearson

ISBN#: 978-0136914778



American Heart Association Pediatric Advanced Life Support Manual , 2020

ADDITIONAL CLASSROOM ITEMS

Students should come to class prepared with pens, pencils, and a spiral notebook for taking notes or completed quizzes or assignments in class. Students should be prepared to take notes over lecture material if they choose.

CLASS FORMAT

Zoom:

Lectures will be conducted live; but online via Zoom. On occasion, the instructor may, at his discretion, move the live, online lecture to another platform such as Blackboard Collaborate, GoToMeeting, another appropriate platform, or to in-person. Students will be told, in advance, if the class platform is changed from Zoom.

Skills Labs:

Skills labs will be held in person at the Reese Center. Skills labs are clearly marked on the schedule and the student is solely responsible to be at the appropriate location and on time. The instructor will inform the students, in advance, of any changes to skills labs dates, times, and locations.

ATTENDANCE POLICY (*READ CAREFULLY)

Students are expected to attend all classes in order to be successful in a course. The student may be administratively withdrawn from the course when absences become excessive as defined in the course syllabus.

When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting.

Students who enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the instructor. Instructors are responsible for clearly stating their administrative drop policy in the course syllabus, and it is the student's responsibility to be aware of that policy.

It is the student's responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

Due to the importance of the emergency medical information being taught, the instructor of this course defines excessive absences as missing the 3rd class day (or having equivalent tardies) in a course section. A student who meets these criteria will be administratively dropped from the course by the instructor.

- Tardies: (Definition): arriving any time after the class has started or not returning from an approved break after class has started. Leaving class early will also constitute a tardy.
- Two tardies will be considered missing one class day and counted as such.
- **Work schedule** is **not** an excuse for missing class.
- Any exceptions to this policy must be discussed on an individual basis with the course instructor and the EMS Program Director. (i.e. – student hospitalization, immediate family member death, etc.).

Grading for Attendance (Participation):

Each student will begin the semester with a “100” for attendance and will have deductions as listed below:

- 5-point deduction for each tardy, returning late from a break, leaving class prior to dismissal
- 10-point deduction for each absence
 - Missing more than ½ of a class will constitute a full absence

SPECIFIC RULES FOR ONLINE ATTENDANCE

- All students must be logged in to Zoom (or other designated platform as indicated by the instructor) by the start of class (0830). Roll call will begin immediately at the starting time. Any student that is having technical difficulties logging in must inform the instructor via email or text BEFORE the beginning of class. Failure to do so may result in a “tardy” being recorded.
- Students shall have their computer video cameras on at all times during online classes, unless authorized by the instructor.
- Breaks will be given periodically for a time period designated by the instructor. Failure to be back on Zoom at the resumption time will be recorded as a tardy.
- Students will be called upon throughout the class.
- Behavior that distracts from the class will not be tolerated. Examples include side conversations, texting, phone calls, etc.
- Students shall be dressed in the appropriate SPC uniform with a professional appearance. (See DRESS CODE in this syllabus).

HOMEWORK/ASSIGNMENT POLICY

All assignments must be completed by the assigned due date and time. **Late and/or incomplete work will not be accepted and a grade of zero will be recorded.** In rare circumstances; such as illness, emergency, etc. the instructor may allow additional time to submit assignments. However, this will be considered on a case-by-case basis and only considered in rare, extraordinary situations. Assignments, quizzes, exams, and skills that are missed due to an unapproved absence may not be made up. See the instructor for more specific information.

Taking of a Texas Jurisprudence course and passing the exam is MANDATORY during the AEMT course. A course completion certificate will NOT be issued unless the student completes this assignment as directed by the instructor. This assignment will be an online assignment and the instructor will provide detailed instructions for this assignment. Only the jurisprudence course assigned by the instructor will be allowed and must be completed during the timeframe of this course; even if the student has taken this Jurisprudence exam previously.

COMPUTER USAGE

As computer technology in the field of emergency medical services continues to become more popular, computers will be used in this course for several assignments. All students have access to computers and printers on the South Plains College Reese campus. Students will be expected to utilize computers to access assignments and classroom resources. All registered students are supplied with a working email account from South Plains College. In order to take exams, students must have their user name and password.

ALL STUDENTS ARE EXPECTED TO KNOW THEIR SPC STUDENT USER NAME AND PASSWORD.

COMPUTER LAB USAGE

The computer lab(s) on campus may be used by students during scheduled open hours or as assigned by an instructor. Printer paper will not be provided by SPC EMS department for students to print materials but students may seek assistance from faculty to request lab paper from the college if needed. Lack of computer lab paper is not an excuse for not having homework assignments, skills lab sheets, or any other required documents. Students should come prepared for class.

EXAMS

The majority of student 'written' exams will be administered via computer to prepare them for the National Registry exam and some exams will be handwritten which will encourage memory and mastery of the material. Students should practice proper spelling and grammar when answering a written exam.

Additionally, many exam questions will be constructed in the same manner as national registry questions, allowing students to prepare for that testing format. Major exams are administered at a campus computer lab or, as determined by the instructor, via Proctorio. Students are expected to be on time for exams and complete the exams within the time frame allowed. **Note:** all major exams will be auto-submitted at the end of the allocated time and all unanswered questions will be counted as incorrect. The grade received will be the official grade that is entered into the official gradebook.

- **There are no retests for Modular Exams.**
- Students are required to make a 75% on the final exam or the student must re-take the course.
- A re-test on the final may be offered to the student automatically if they have a clean behavior record for the overall program, i.e.: no absences, tardies, or previously failed exams. If the retest is passed, the student shall receive a score of 75% for the final exam on the official gradebook; regardless of the raw score for the retest.
- If a student does not meet the automatic re-take criteria, they must submit an appeal letter, within the timeframe as directed by the instructor. That request may go before a committee of the medical director, the Allied Health Chairperson, a counselor, and others to get a decision. – the committee will decide whether the student is eligible for an exam re-take or course re-take.
 - If the retest is granted by the committee, the instructor will set up a time for the retest and must be completed within the timeframe designated by the instructor. All retests will be in-person at the Reese Campus (No Proctorio Retests will be allowed). If a retest is allowed and passed, the student shall receive a 75% for the final exam on the official grade book; regardless of the raw score on the retest. Failure to pass the final retest will result in an "F" entered into the official gradebook and the student must retake the class in order to receive credit and pass the overall AEMT course to receive a course completion certificate.
- All major exams will be live and in person on the SPC Reese Campus. Students are expected to complete the exams within the time frame allowed.
- Students may review all major exams by scheduling an appointment with the instructor during normal business hours. Exams may be reviewed in person or via Zoom at the choice of a student. During exam review, the student will be supervised to protect the integrity of the exam. Taking of notes is allowed during reviews; but the student cannot copy any test questions.
- Students are encouraged to ask for explanation of any missed questions and to challenge questions and answers that they feel is problematic. This will be done in a respectful manner. If a question or answer is deemed inappropriate, the instructor may correct the mistake and adjust all grades for that exam as appropriate.

Make-up Exams: If a student is absent during a scheduled exam, that student must make up the exam within 1 week of the scheduled exam date. Note: all makeup exams shall be scheduled with the instructor and must be completed during the designated time set forth by the instructor. A missed final exam must be made up within 24 hours of the scheduled test date. A makeup exam does NOT constitute attendance for the date of the scheduled exam. Failure to make up an exam as listed, a score of "0" shall be entered for that exam.

GRADING POLICY

A student must maintain an average of 75% on sectional exams, homework, quizzes and participation to pass the course. Students are expected to demonstrate material competency by making a 75% or above on the final exam to pass the course. A grade of 75% or above is required on the final exam in order to pass the course.

Final semester grades will be based on the following:

Quizzes/Pop Quizzes	15%
Homework/Assignments	10%
Participation/Lab	5%
Modular Exams	40%
Final Exam	30%

Grading Scale:	90-100	A
	80-89	B
	75-79	C
	74 or Below	F

SKILLS AND SKILLS EXAMS

Skills are a critical aspect of an EMS training program. Each student is solely responsible to complete all peer review skills requirements and documentation on the Platinum Planner platform by the due date as outlined by the lead instructor. Ample time is allocated during the class to complete this component. Students are expected to utilize the allotted class time appropriately to achieve completion. Failure to complete this requirement may result in the dismissal from the SPC EMS Training Program.

All students **MUST** participate in the skills and scenarios prescribed by the lead instructor. Skills are considered part of the student's "portfolio" and will require completion at designated intervals throughout the program. Students are expected to participate in skills and scenario exercises. Students will function as team member and as team leader. As a paramedic is expected to lead a team, participation as a team leader is mandatory.

DOCUMENTATION OF SKILLS LABS:

Students will be solely responsible for documenting all skills labs on Platinum Planner if assigned. Some skills may be "batched" documented by the instructor, clinical coordinator, or program director. If students are assigned to document a skills lab, that lab **MUST be documented and submitted on Platinum Planner within 48 hours of the skills lab. If a skills lab is returned for corrections, the student will have 48 hours from the time stamp of the return on Platinum Planner. Failure to submit skills documentation within this time frame will result in the student having to repeat those skills outside of designated skills lab times.** Repeated violations of this policy may result in termination from the Program.

COMMUNICATION POLICY

Electronic communication between instructor and students in this course will utilize the South Plains College "My SPC" and email systems. I will utilize text messaging and you may communicate with me this way also. The instructor will not initiate communication using private email accounts. Students are encouraged to check SPC email on a regular basis each week of class. Students will also have access to assignments, web-links, handouts, and other vital material which will be delivered via the classroom website. Any student having difficulty accessing the classroom website or their email should immediately contact their instructor for direction. The instructor will work with any student to ensure the student has access to a computer on campus and can obtain the needed class content that is located on the course website.

STUDENT CONDUCT

Rules and regulations relating to the students at South Plains College are made with the view of protecting the best interests of the individual, the general welfare of the entire student body and the educational objectives of the college. As in any segment of society, a college community must be guided by standards that are stringent enough to prevent disorder, yet moderate enough to provide an atmosphere conducive to intellectual and personal development.

A high standard of conduct is expected of all students. When a student enrolls at South Plains College, it is assumed that the student accepts the obligations of performance and behavior imposed by the college relevant to its lawful missions, processes and functions. Obedience to the law, respect for properly constituted authority, personal honor, integrity and common sense guide the actions of each member of the college community both in and out of the classroom.

Students are subject to federal, state and local laws, as well as South Plains College rules and regulations. A student is not entitled to greater immunities or privileges before the law than those enjoyed by other citizens. Students are subject to such reasonable disciplinary action as the administration of the college may consider appropriate, including suspension and expulsion in appropriate cases for breach of federal, state or local laws, or college rules and regulations. This principle extends to conduct off-campus which is likely to have adverse effects on the college or on the educational process which identifies the offender as an unfit associate for fellow students.

Any student who fails to perform according to expected standards may be asked to withdraw.

Rules and regulations regarding student conduct appear in the current Student Guide.

DRESS CODE

Due to EMS being a uniformed profession, all students will be required to wear their clinical uniform during skills labs and during all classes; even on Zoom. The uniform must be clean and presentable. Proper attire will consist of the following:

- **Black Pocket Pants**
- **Black boots**
- **Gray Polo (Student Uniform Shirt) (must be tucked in)**
- **EMSO T-shirt (must be tucked in)**
- **Watch with a second hand**
- **Closed toed shoes or boots (solid black)**
- **Stethoscope (optional)**

WHAT NOT TO WEAR: jeans, hats, flip-flops, shorts, jeans, low cut blouses, private EMS uniforms.

- **These guidelines are for your protection due to the nature of the EMS environment and the amount of lifting and moving that will take place in the lab**
- **If you are employed by a local or regional EMS service, do not wear your uniform, badge, pager, or radio to class as this causes distractions from the teaching environment**

SPECIAL REQUIREMENTS (*Read Carefully)

Students must read and understand the following items:

- Syllabus (EMSP 2330) (This Document) (On Blackboard)
- SPC EMS Program Handbook (On Blackboard)
- SPC Clinical Handbook (On Blackboard)
- Grievance Policy (Located at: <http://catalog.southplainscollege.edu/content.php?catoid=62&navoid=2274>)
- South Plains College GRADE AND ACADEMIC DISCIPLINE APPEALS (Located at <http://catalog.southplainscollege.edu/content.php?catoid=62&navoid=2274>)
- Campus Carry Policy (located at: <https://www.southplainscollege.edu/syllabusstatements/>)

Students must present a signature page acknowledging that the student been shown the location of each of the above items and has read and understands the content of each. This is due as set by the instructor.

TECHNOLOGY RULES

Cell Phones: During lectures or labs, cell phones are to be turned OFF or on silenced during scheduled class periods, unless prior approval has been given from the instructor. **Text messaging is not allowed during scheduled class/lab times.** Cell phones are to be used outside the classroom or lab only on designated breaks. Students are not allowed to have cell phones, notebooks, tablets, smart watches, or any other technology devices on their person during written exams. Students will receive a grade of "F" for the exam if they have a cell phone during an exam. Additionally, possession of a cell phone during an exam may be grounds for dismissal from the EMS program and from SPC. (See Cheating and Plagiarism on pp 2.).

CAMPUS CARRY

Texas Government Code 411.2031, et al. authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: <http://www.southplainscollege.edu/campuscarry.php>

COURSE DISCLAIMER

Working with the public in emergency situations is stressful and requires a mentally tough individual to provide medical care in the prehospital environment. This course is designed to teach students about real-world situations the EMT – Paramedic may potentially encounter in the ‘field’ while managing patient care.

In order to better prepare students for a career in the Emergency Medical Services profession, there will be times during this course where students will be exposed to training scenarios and situations that will be unpleasant to the average college student. If the student does not feel they can tolerate this type of learning environment, they should discuss this with me immediately before continuing the course.

Additionally, enrollment in this course does not guarantee a passing grade, successful completion of the AEMT, or AEMT or paramedic curriculum, or paramedic certification at the national or state level.

SYLLABUS DISCLAIMER

Serious effort and consideration were used in preparing the syllabus presented. While viewed as an educational contract between instructor and student, unforeseen events may cause changes to the scheduling of exercises, quizzes, etc. Every effort will be made NOT to change scheduled items. Nonetheless, SPC EMS instructors reserve the right to make any changes deemed necessary to best fulfill the course objectives. Students registered for this course will be made aware of any changes in a timely fashion using reasonable means.

Russell “Rusty” Powers, BA, LP, NRP
SPC EMS Program Instructor

ACCOMMODATIONS

For information regarding official South Plains College statements about **Intellectual Exchange, Disabilities, Non-discrimination, Title V Pregnancy Accommodations, CARE Team, and Campus Concealed Carry**, please visit: <https://www.southplainscollege.edu/syllabusstatements/>

FOUNDATION SKILLS

BASIC SKILLS–Reads, Writes, Performs Arithmetic and Mathematical Operations, Listens and Speaks

F-1 Reading–locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.

F-2 Writing–communicates thoughts, ideas, information and messages in writing and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.

F-3 Arithmetic–performs basic computations; uses basic numerical concepts such as whole numbers, etc.

F-4 Mathematics–approaches practical problems by choosing appropriately from a variety of mathematical techniques.

F-5 Listening–receives, attends to, interprets, and responds to verbal messages and other cues.

F-6 Speaking–organizes ideas and communicates orally.

THINKING SKILLS–Thinks Creatively, Makes Decisions, Solves Problems, Visualizes and Knows How to Learn and Reason

F-7 Creative Thinking–generates new ideas.

F-8 Decision-Making–specifies goals and constraints, generates alternatives, considers risks, evaluates and chooses best alternative.

F-9 Problem Solving–recognizes problems, devises and implements plan of action.

F-10 Seeing Things in the Mind’s Eye–organizes and processes symbols, pictures, graphs, objects, and other information.

F-11 Knowing How to Learn–uses efficient learning techniques to acquire and apply new knowledge and skills.

F-12 Reasoning–discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

PERSONAL QUALITIES–Displays Responsibility, Self-Esteem, Sociability, Self-Management, Integrity and Honesty

F-13 Responsibility–exerts a high level of effort and perseveres towards goal attainment.

F-14 Self-Esteem–believes in own self-worth and maintains a positive view of self.

F-15 Sociability–demonstrates understanding, friendliness, adaptability, empathy and politeness in group settings.

F-16 Self-Management–assesses self accurately, sets personal goals, monitors progress and exhibits self-control.

F-17 Integrity/Honesty–chooses ethical courses of action.

SCANS COMPETENCIES

C-1 **TIME** - Selects goal - relevant activities, ranks them, allocates time, prepares and follows schedules.

C-3 **MATERIALS AND FACILITIES** - Acquires, stores, allocates, and uses materials or space efficiently.

C-4 **HUMAN RESOURCES** - Assesses skills and distributes work accordingly, evaluates performances and provides feedback.

INFORMATION - Acquires and Uses Information

C-5 Acquires and evaluates information.

C-6 Organizes and maintains information.

C-7 Interprets and communicates information.

C-8 Uses computers to process information.

INTERPERSONAL–Works With Others

C-9 Participates as a member of a team and contributes to group effort.

C-10 Teaches others new skills.

C-11 Serves Clients/Customers–works to satisfy customer’s expectations.

C-12 Exercises Leadership–communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.

C-13 Negotiates–works toward agreements involving exchanges of resources; resolves divergent interests.

C-14 Works With Diversity–works well with men and women from diverse backgrounds.

SYSTEMS–Understands Complex Interrelationships

C-15 Understands Systems–knows how social, organizational, and technological systems work and operates effectively with them.

C-16 Monitors and Corrects Performance–distinguishes trends, predicts impacts on system operations, diagnoses systems performance and corrects malfunctions.

C-17 Improves or Designs Systems–suggests modifications to existing systems and develops new or alternative systems to improve performance.

TECHNOLOGY–Works with a Variety of Technologies

C-18 Selects Technology–chooses procedures, tools, or equipment, including computers and related technologies.

C-19 Applies Technology to Task–understands overall intent and proper procedures for setup and operation of equipment.

C-20 Maintains and Troubleshoots Equipment–prevents, identifies, or solves problems with equipment, including computers and other technologies.