
ACE



2017

*Academic Challenge
for Excellence*

Handbook

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**2017 ACADEMIC CHALLENGE FOR EXCELLENCE (ACE)
AREAS OF COMPETITIONS AND AWARDS**

FRIDAY, MARCH 10, 2017

ACADEMIC COMPETITIONS

BUSINESS PLAN
ENGLISH LANGUAGE
INFORMATION TECHNOLOGY
MATHEMATICS
NATURAL SCIENCES
PUBLIC SPEAKING
SOCIAL STUDIES

TECHNICAL COMPETITIONS

BUSINESS SKILLS
COSMETOLOGY
DRAFTING AND DESIGN TECHNOLOGY
ELECTRICAL TECHNOLOGY
HEALTH OCCUPATIONS KNOWLEDGE BOWL
HEALTH OCCUPATIONS SKILLS
INDUSTRIAL MAINTENANCE TECHNOLOGY
MASONRY/BUILDING TRADES
WELDING TECHNOLOGY

AWARDS

All students, who **register** by **February 20, 2017 (the registration deadline)**, will receive a certificate of participation and an official ACE T-shirt.

All members of teams placing **FIRST, SECOND, or THIRD** will receive awards, as will **FIRST, SECOND, or THIRD** place finishers in areas of individual competition.

Each school having a team or individual placing **FIRST** will receive an award.

AWARDS CEREMONY

All awards will be presented in the gymnasium during an **awards ceremony** which will begin at **12:20 p.m.**

**REGISTRATION PROCEDURES
ACADEMIC AND TECHNICAL COMPETITIONS**

HOW TO REGISTER YOUR SCHOOL

1. Read carefully all information contained in this handbook to ensure your understanding of the ACE Competition rules, competition offerings, and scheduling.
2. Decide on the specific competitions in which your school will participate.
3. Select your school's participants and sponsors. **Each school must be represented by at least one sponsor. Competition rules prohibit a student from participating in more than one competition.**
4. Register for any **ACADEMIC COMPETITION** by downloading forms from WCCS' website: www.wccs.edu. Click on the ACE 2017 icon to select registration application. Submit all ACE Registration Forms to the ACE Registration Clerk:

WCCS, Pamela B. Moore
pamela.moore@wccs.edu
Telephone: (334) 876-9257
Fax: (334) 876-9392

The deadline for Academic Competition Registration is Monday, February 20, 2017.

Schools may not register for any competitions, team or individual, after the registration deadline of (February 20, 2017). There is no provision for registration on competition day.

Each school's representative is responsible for making sure that a student competes in only one competition and that all students and teachers understand and follow the rules which govern the competitions. In all competitions, the decisions of the judges are final.

5. Register for any **TECHNICAL COMPETITION** by downloading forms from WCCS' website: www.wccs.edu. Click on the ACE 2017 icon to select registration application(s). Submit all ACE Registration Forms to the ACE Registration Clerk:

WCCS, Pamela B. Moore
pamela.moore@wccs.edu
Telephone: (334) 876-9257
Fax: (334) 876-9392

You may telephone technical competition coordinators for more specific information (see list of technical competition coordinators on page 15). If you did not compete in a technical competition last year and are interested in competing this year, you must contact the appropriate coordinator and submit proper registration forms.

The deadline for Technical Competition Registration is Monday, February 20, 2017.

Ensure that participants and sponsors understand and follow the rules which govern the competitions. In all competitions, the decisions of the judges are final.

COMPETITION RULES AND GENERAL INFORMATION

ACE T-SHIRTS

All participants are encouraged to wear the official ACE T-shirt during competition. Participants, who register by the **February 20, 2017**, registration deadline, will receive an official ACE T-shirts during check-in on competition day. All schools that are NOT listed or accounted for on the ACE Registration Listing may pick up shirts at the end of registration after all registered schools have received their shirts.

HOSPITALITY ROOM

A hospitality room with complimentary refreshments will be provided for sponsors, adult guests, bus drivers, faculty, and staff in the library's Sam Earl Hobbs Reading Room.

PARTICIPANTS

A student may compete in only one event. Violation of this competition rule will result in disqualification of the individual participant, and if applicable, his/her team from the competitions involved.

TESTS

Tests were developed using the *Alabama Course of Study* guidelines whenever possible. Tests will not be returned after scoring.

PRELIMINARY COMPETITION RESULTS

Results of the preliminary competitions in NATURAL SCIENCES, PUBLIC SPEAKING, and SOCIAL STUDIES will be posted in the Library-Gym lobby immediately prior to the final rounds of these competitions.

COACHING

Sponsors and guests are not permitted to attend any preliminary competition that involves written tests.

RECORDING DEVICES

No recording devices of any kind (audio, video, smart phone, etc.) are permitted during any ACE Competition (either preliminary or final). The recording of any competition questions for potential future use is both inappropriate and unethical and may lead to disqualification of participants.

EMERGENCY CONTACTS

In the event of an emergency, a participant may be reached by calling the WCCS switchboard at (334) 876-9227.

COMPETITION POSTPONEMENT

Only under SEVERE weather conditions will any postponement of the competition be considered. If postponement is necessary and known in advance, every attempt will be made to contact the participating schools. If there is a question concerning postponement, you may call the WCCS switchboard for information at (334) 876-9227.

SUPPLIES

Participants are responsible for bringing their own pencils, pens, and, if applicable, calculators for competition use. Please read specific competition guidelines for detailed information. In case of

additional questions, call the applicable competition coordinator(s)--(telephone numbers are listed on pages 6 and 13 of this handbook).

SCHOLARSHIP INFORMATION

ACE Scholarships will be offered in the technical competitions to seniors only. To receive a scholarship a student must meet the scholarship eligibility requirements of the College and of the individual WCCS program for which the scholarship is offered.

ONLY first place individual winners in technical program competitions will be offered a technical scholarship. All scholarships must be accepted and used no later than the beginning of the fall semester following the winner's graduation from high school. This amendment supersedes any previous correspondence(s) relative to the awarding of ACE Technical Scholarship. **(Amended February 26, 2014)**

OVERNIGHT ACCOMMODATIONS

Guests who prefer overnight accommodations for the day or days prior to the competition may contact one of the following hotels for rates and/or cancellations information:

*Hampton Inn Selma
2200 West Highland Avenue
Selma, Alabama 36701
(334) 876-9995*

*Holiday Inn Express Selma
2000 Lincoln Way
Selma, Alabama 36701
(334) 874-1000*

Photo identification is required at check in. Should you have any questions, please do not hesitate to call ***Hampton Inn Selma or Holiday Inn Express Selma*** at the numbers listed above. Selma Inns welcome you and are looking forward to having you as their guest.

CHECK-IN PROCEDURES FOR ACADEMIC COMPETITIONS

1. Upon arrival, sponsors should report to the CHECK-IN CENTER in the lobby of the Library-Gymnasium Building. Sponsors are asked to check-in, verify registration form(s), and pick up a competition packet and ACE T-shirts. **The Check-In Center will open at 7:00 a.m. on the day of the competition.**

Students may NOT complete check-in procedures themselves. Students should report to the gymnasium while their school sponsors complete check-in procedures.

2. **Schools may NOT register for additional competitions during check-in. Registration for all competitions must be completed and submitted by the deadline– February 20, 2017.**
3. Changes in any registered individual or team participants are considered substitutions. **Substitutions must be made during check-in procedures, at least 30 minutes before the starting time of the competition.**
4. No student may compete in a final competition if he/she has not successfully completed a preliminary round.
5. Please check the *Academic Competition Schedule*, page 6, for the beginning time and location of each event. **Participants should be seated in a competition room 15 minutes before the actual competition time.** Plan on arriving early so that check-in procedures can be completed and participants can find their appropriate rooms.

ACADEMIC COMPETITIONS SCHEDULE

<u>Academic Competition</u>	<u>Competition Time</u>		<u>Building/Initial Room Assignment</u>
BUSINESS PLAN	8:45		Advance Visualization Center (Goodwin Theater)
ENGLISH COMPOSITION	8:45		Classroom Building CB-146
ENGLISH GRAMMAR	8:45		Classroom Building CB-141
INFORMATION TECHNOLOGY	8:45		Hank Sanders Technology Center Rooms 300 and 301
MATHEMATICS--ADVANCED MATH	8:45		Arts & Sciences Building AS-221
MATHEMATICS--ALGEBRA I	8:45		Arts & Sciences Building AS-220
MATHEMATICS--ALGEBRA II	8:45		Arts & Sciences Building AS-217
MATHEMATICS--GEOMETRY	8:45		Arts & Sciences Building AS-216
NATURAL SCIENCES I	Preliminary 8:45		Health Science Building Room 205
	FINAL 10:00		Health Science Building Room 205
NATURAL SCIENCES II	Preliminary 8:45		Health Science Building Room 210
	FINAL 10:00		Health Science Building Room 205
PUBLIC SPEAKING	Preliminary 8:30		Hank Sanders Technology Center Rooms 209, 302, 303 & 2 nd Floor Conference Room
	FINAL 10:45		Hank Sanders Technology Center Room 303
SOCIAL STUDIES I	Preliminary 8:45		Hank Sanders Technology Center Room 112
	FINAL 10:00		Hank Sanders Technology Center Room 112
SOCIAL STUDIES II	Preliminary 8:45		Hank Sanders Technology Center Room 112
	FINAL 11:00		Hank Sanders Technology Center Room 112
AWARDS CEREMONY	12:20		Library-Gymnasium Building

**Competition Entry Forms that designate a specific room assignment for each student will be included in the material you receive at the Check-In Center.*

ACADEMIC COMPETITION COORDINATORS

For additional information concerning specific areas of competition, you should contact the Area Competition Coordinators listed below. If you are unsuccessful in contacting a particular Area Competition Coordinator, please call **one** of the ACE Coordinators.

WCCS Telephone Number: (334) 876-WCCS
(9227)

Area Competition Coordinators:	Phone	Email
Business Plan Coordinators: Ebony Rose Shandra Smith	(334) 876-9410 (334) 876-9393	ebony.rose@wccs.edu shandra.smith@wccs.edu
English Composition Coordinators: Mrs. Althelstein Johnson	(334) 876-9328	althelstein.johnson@wccs.edu
English Grammar Coordinators: Mrs. Kendra Richardson	(334) 876-9316	kendra.richardson@wccs.edu
Information Technology Coordinators: Mrs. Connie Jones Ms. Yulonda Randolph	(334) 876-9243 (334) 876-9336	connie.jones@wccs.edu yulonda.randolph@wccs.edu
Mathematics Coordinators: Mrs. Ghytana Goings	(334) 876-9382	ghytana.goings@wccs.edu
Natural Sciences Coordinators: Mr. Elijah Pugh	(334) 876-9280	elijah.pugh@wccs.edu
Public Speaking Coordinators: Ms. Maxine Sturdivant	(334) 876-9331	maxine.sturdivant@wccs.edu
Social Studies Coordinators: Dr. Tara White	(334) 876-9424	tara.white@wccs.edu

ACE COORDINATORS

Mr. Kenny Allen	(334) 876-9357 / kenny.allen@wccs.edu
Mrs. Nancy Autery	(334) 876-9256 / nancy.autery@wccs.edu
Ms. Betty Bentley	(334) 876-9244 / betty.bentley@wccs.edu
Mr. Lonzy Clifton	(334) 876-9251 / lonzy.clifton@wccs.edu
Ms. Pamela B. Moore	(334) 876-9257 / pamela.moore@2wccs.edu
Ms. Ebony Rose	(334) 876-9410 / ebony.rose@wccs.edu

BUSINESS PLAN GUIDELINES

PARTICIPANTS

Each school may enter one (1) team of up to three (3) students.

AREA OF COMPETITION

Each team must present a Power Point presentation on a business they would like to start. This presentation must be neat, well organized, legible, visually appealing and complete. The plan should include the company's mission statement, provide an outline of the company's products and services, indicate profit potential, and include general financial information.

PROCEDURES

Each presentation will last no longer than 7 minutes. Each team must provide four (4) hard copies of their presentation. Students are encouraged to wear business attire to this competition.

AWARDS

Three (3) individual awards (1st place, 2nd place and 3rd place) for the highest individual scores.

Three (3) team awards (1st place, 2nd place and 3rd place) for the teams with the highest scores.

The team score is determined by the sum of the individual team member scores.

Available Software and Languages

Office 2007 (MS PowerPoint)

For additional questions please contact Felecia Pettway at 334-876-9379, Shandra Smith at 334-876-9393, or Ebony Rose at 334-876-9410.

ENGLISH LANGUAGE GUIDELINES

PARTICIPANTS

Each school may enter one (1) student from the senior class for the grammar competition and one (1) student from the senior class for the composition competition. The grammar and composition competitions will be limited to the first 20 students to register.

AREAS OF COMPETITION

English Composition
English Grammar

PROCEDURES

English Composition competitors will be given an unidentified literary passage--poetry, drama, or fiction-- and asked to write, within an hour, an interpretative paper on a character, an idea, or a literary device. All papers will be evaluated by members of the English faculty at WCCS. Content, organization, style, and grammar constitute the criteria by which the papers will be assessed. The student who writes the best paper by consensus of the WCCS English faculty will be declared the English Composition winner.

Each English Grammar competitor will take an objective test on grammar. The test consists of fifty (50) multiple choice questions, which must be answered in the time limit of thirty minutes. The student with the highest score will be declared the English Grammar winner. In case of a tie in first, second, or third places, a second test will be administered.

INFORMATION TECHNOLOGY GUIDELINES

PARTICIPANTS

Each school may enter one (1) team of up to three (3) students.

AREA OF COMPETITION

The information technology exam includes general computer knowledge, word processing, spreadsheets, databases, and the Internet. The questions will be generic and will not be specific to a particular application or language.

PROCEDURES

Each individual will take a test of fifty (50) multiple-choice questions that will be graded by the computer. Each individual will complete one (1) hands-on computer exercise using one of the following software applications: Word, Excel, or PowerPoint.

The maximum time allowed for the entire competition is 1 ½ hours.

AWARDS

Three (3) individual awards (1st place, 2nd place and 3rd place) for the highest individual scores.

Three (3) team awards (1st place, 2nd place and 3rd place) for the teams with the highest scores.

The team score is determined by the sum of the individual team member scores.

Available Software and Languages

Office 2010 (Word, Access, PowerPoint)

MATHEMATICS GUIDELINES

PARTICIPANTS

Each school may enter up to three (3) students per area of competition.

Students competing in math events must register for their most recent level of study. Students not currently enrolled in an area of study may compete on the level of the last course completed. A school entering three (3) participants in an area of competition will be eligible for a school award. It is possible to be eligible for a school award in one area but not in another.

AREAS OF COMPETITION

Algebra I	Geometry
Algebra II	Advanced Math

PROCEDURES

All tests are one hour multiple-choice exams. The determination of the raw scores for an award will be based on the following factors:

+5 for each correct answer	-1 for each incorrect answer	0 for each blank
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School awards will be determined by the sum of the scores for that school's participants in an area of competition. **Calculators cannot be used during the competition.**

AWARDS

Three (3) individual awards (1st place, 2nd place and 3rd place) for the highest individual scores.

Three (3) team awards (1st place, 2nd place and 3rd place) for the teams with the highest scores.

The team score is determined by the sum of the individual team member scores.

NATURAL SCIENCES GUIDELINES

PARTICIPANTS

Each school may enter a TEAM of up to three (3) students per division.

AREAS OF COMPETITION

Division I (Grades 9-10)

40% Physical Science

40% Biology

20% Earth and Space Science

Division II (Grades 11-12)

40% Biology

30% Chemistry

30% Physics

PROCEDURES

COMPETITION

A paper and pencil test will be administered to all teams. **Calculators may be used during this competition and participants must bring their own calculators.** Each team will submit one official team answer sheet. A majority of the test questions will be multiple-choice.

In the event of a tie, correct answers to pre-selected questions serves as tiebreakers.

PUBLIC SPEAKING GUIDELINES

PARTICIPANTS

The public speaking competition is limited to 11th and 12th grade students.

A school may enter up to two (2) individual participants.

AREA OF COMPETITION

Persuasive Speaking

PROCEDURES

PRELIMINARY

Participants will be divided into sections of up to seven speakers for the preliminary competition. The participants will deliver a prepared PERSUASIVE speech on a topic of their choice. Speeches will be limited to at least **5**, but not more than **7** minutes; speeches not adhering to the time limits will be penalized. Note cards are permitted, and a lectern will be provided. Participants who choose to use visual aids are responsible for providing their own supplies and/or equipment. PowerPoint is NOT allowed. During the competition, participants will be a part of the audience, except when speaking. Evaluation will be based on delivery, content, overall effectiveness, and length. The highest-ranked speaker from each section will advance to the final competition. Due to time constraints, students who arrive late will NOT be allowed to participate.

FINAL COMPETITION

Participants who advance to the final competition will deliver the same persuasive speech they presented in the preliminary competition. Due to time constraints, students who arrive late will NOT be allowed to participate. The same procedures and evaluation criteria used in the preliminary competition will be followed. First, second, and third place winners will be determined in the final competition and announced during the ACE Awards Ceremony.

SOCIAL STUDIES GUIDELINES

PARTICIPANTS

Each school may enter a TEAM of up to three (3) students per division.

AREAS OF COMPETITION

Division I (Grades 9-10)

World History
Current Events
Geography
American History

Division II (Grades 11-12)

U. S. History	Current Events
World History	Geography
Economics	
American Government	

PROCEDURES

PRELIMINARY COMPETITION

A written test will be administered to all teams. Each team will submit one official team answer sheet. A majority of the test questions will be multiple-choice; the remainder will be open ended. The score will be the number of correct answers. The three (3) highest scoring teams will advance to the Final Competition.

FINAL COMPETITION

The final competition will be held among the three (3) highest scoring teams to determine first, second, and third place. Competing teams will use an electronic light and buzzer system, similar to that used by the College Bowl.

TIE BREAKER FOR FINAL COMPETITION

A three- minute overtime will be used to break a tie for first place. If the tie has not been broken after the overtime, a “sudden death” procedure will be adopted. The first team to correctly answer the next question will be declared the winner. Ties for second place will be settled by the one-question “sudden death” procedure.

CHECK-IN PROCEDURES FOR TECHNICAL COMPETITIONS

All participants in technical competitions must be registered prior to competition day. Upon arrival, technical competition sponsors should report to the ACE Check-In Center in the lobby of the Library-Gymnasium Building. Sponsors will check-in, verify registration forms, and pick up ACE T-shirts and a competition packet. The ACE Check-In Center will open at 7:00 a.m. on competition day.

Students may NOT complete check-in procedures themselves.

Following check-in, technical sponsors and students should report to the location of the specific technical competition.

All participants must be checked in and seated in the correct competition location prior to the beginning of the competition.

TECHNICAL COMPETITIONS SCHEDULE

<u>Technical Competition</u>	<u>Competition Time</u>	<u>Building/Initial Room Assignment</u>
BUSINESS SKILLS	8:45	Hank Sanders Technology Center 2 nd Floor
COSMETOLOGY	8:00	Cosmetology Technology Building
DRAFTING	8:00	Classroom Building Drafting Division
ELECTRICAL TECHNOLOGY	8:00	Electrical Technology Building
HEALTH KNOWLEDGE BOWL	7:30	Health Science 142
HEALTH SKILLS	7:30	Health Science 142
INDUSTRIAL MAINT TECHNOLOGY	8:00	Industrial Technology Building
MASONRY/BUILDING TRADES	8:00	Masonry Technology Building
WELDING TECHNOLOGY	8:00	Welding Technology Building
AWARDS CEREMONY	12:20	Library-Gymnasium Building

TECHNICAL COMPETITION COORDINATORS

For additional information concerning specific areas of competition, you should contact the Area Competition Coordinators listed below. If you are unsuccessful in contacting a particular Area Competition Coordinator, please call one of the ACE Coordinators.

WCCS Telephone Number: (334) 876-WCCS
(9227)

Area Competition Coordinators:	Phone/Email:
Business Skills, Mrs. Marilyn Hannah	(334) 876-9383 marilyn.hannah@wccs.edu
Cosmetology, Mrs. Shirley Laister	(334) 876-9265 shirley.laister@wccs.edu
Drafting and Design, Mr. David Hobbs	(334) 876-9347 david.hobbs@wccs.edu
Electrical Technology, Mr. Eric Rogers	(334) 876-9348 eric.rogers@wccs.edu
Health Occupations Knowledge Bowl, Mrs. Pearlie Miller	(334) 876-9341 pearlie.miller@wccs.edu
Mrs. Mixon-Carter	(334) 876-9333 kim.mixon-carter@wccs.edu
Health Occupations Skills, Dr. Tracey Shannon	(334) 876-9277 tracey.shannon@wccs.edu
Industrial Maintenance Technology, Mr. Duke Brady	(334) 876-9407 dale.moore@wccs.edu
Masonry/Building Trades, Mr. Kenny Allen	(334) 876-9357 kenny.allen@wccs.edu
Welding Technology, Mr. Otis Tarver	(334) 876-9351 otis.tarver@wccs.edu

ACE COORDINATORS

Mr. Kenny Allen	(334) 876-9357 / kenny.allen@wccs.edu
Mrs. Nancy Autery	(334) 876-9256 / nancy.autery@wccs.edu
Ms. Betty Bentley	(334) 876-9244 / betty.bentley@wccs.edu
Mr. Lonzy Clifton	(334) 876-9251 / lonzy.clifton@wccs.edu
Ms. Pamela B. Moore	(334) 876-9257 / pamela.moore@2wccs.edu
Ms. Ebony Rose	(334) 876-9410 / ebony.rose@wccs.edu

BUSINESS SKILLS GUIDELINES

PARTICIPANTS

Each school may enter one (1) student in Keyboarding I, up to two (2) students in Keyboarding II, and up to two (2) students in Bookkeeping/Accounting.

AREAS OF COMPETITION

Keyboarding I	May be from 9 th - 12 th grade
Keyboarding II	Must be in the 11 th or 12 th grade
Bookkeeping/Accounting	Must be in the 11 th or 12 th grade

Students participating in the Keyboarding I or Bookkeeping/Accounting competition **must be currently enrolled** in those courses. Students who have completed Keyboarding I should enter the Keyboarding II event. No competition is offered for students who have completed Bookkeeping/Accounting.

PROCEDURES

Keyboarding I - Three 5-minute speed tests will be administered to all participants. The students will use computers provided by WCCS.

Keyboarding II - Speed and production tests will be administered to all participants. Students will use computers provided by WCCS.

Bookkeeping/Accounting - A paper and pencil test will be administered to all participants. The test will consist of 100 objective questions and one essay question. Students should bring their own calculators.

Specifics of the above areas of competition will be detailed with additional documentation from the technical coordinator.

COSMETOLOGY GUIDELINES

PARTICIPANTS

Each school may enter up to three (3) participants in this area of competition. Students competing in the cosmetology contest must be currently enrolled in a cosmetology class.

AREA OF COMPETITION

This area of competition includes haircutting and wet hairstyling.

PROCEDURES

Each participant will take a written test consisting of multiple choice or fill-in-the-blank questions.

Each participant will be responsible for bringing a mannequin and all implements needed. One hour will be allowed to complete a basic haircut and one hour for hairstyling.

Specifics of the above area of competition will be detailed in additional documentation from the technical coordinator.

DRAFTING AND DESIGN TECHNOLOGY GUIDELINES

PARTICIPANTS

Each school may enter multiple students in each area of competition. Instructors are asked to contact David Hobbs at (334) 876-9347 to ensure there are available tables or work stations.

AREAS OF COMPETITION

DIVISION I- Mechanical Drawing/Drafting I
(For first year Mechanical Drawing and Drafting students only)

DIVISION II- Drafting II
Engineering Drafting

PROCEDURES

Contestants will be given a drawing which will be drafted manually or electronically to produce a “working engineering drawing.” **STUDENTS USING DRAWING BOARDS ARE REQUIRED TO SUPPLY MANUAL DRAFTING TOOLS TO COMPETE.**

Contestants will be judged on the following:

- Correct view and placement
- Correct shape description
- Correct line types and line weights
- Neatness, line quality
- Dimensioning and tolerancing
- Use and technical accuracy of ANSI Y14.5 or AIA symbology

Specifics of the above areas of competition will be detailed in additional documentation from the technical coordinator.

ELECTRICAL TECHNOLOGY GUIDELINES

PARTICIPANTS

This competition is limited to six (6) area vocational students.

AREA OF COMPETITION

Commercial/Industrial Wiring Hands on Contest
20 Question Written Test from 2011 NEC article 300 and 310 only.

PROCEDURES

Each student will complete the hands on commercial/industrial type project and then complete a 20 question code test. In the event of a tie the contestant who finishes first with the most points shall win.

REQUIRED TOOLS

All students competing must provide their own hand tools and safety glasses. Please note that if your student does not have safety glasses or any of the required tools they will **not** be allowed to compete.

- 1) Lineman Pliers
- 2) Wire strippers
- 3) Medium size screwdriver
- 4) Safety glasses

***Please note: A 2005 NEC codebook will be provided for the students to use during the contest. Students can bring a calculator but it will not be required.**

Students should be familiar with the following electrical installations:

- Single pole switches (Broken at light or switch)
- 3 way switches (Broken at light or switch)
- Keyless light fixtures
- Duplex receptacles
- GFCI receptacles (Line and Load)

HEALTH OCCUPATIONS KNOWLEDGE BOWL

PARTICIPANTS

Each area vocational school may enter a team of three (3) students in this area of competition. Students competing in the Health Occupations Knowledge Bowl must be currently enrolled in a health care related program. Also open to Health Care Science students enrolled in a program with health care objectives. Team member are eligible to participate for one (1) year only and may not participate in any future Knowledge Bowl events. **No notes or written material is permitted.**

AREAS OF COMPETITION

This area includes Current Events; Health Care Related Terminology; Practical Application of Health Care Skills; Applied Science—basic anatomy and biology; Mathematics; and First Aid—CPR. The competition includes oral and written answers. Each team must bring a calculator, pencils for each member and dry erase markers.

PROCEDURES

Each team will consist of three (3) members. One member will be designated captain. Students may bid up to 50 percent of their total score per question. Minimum bid will be 5. Captains must stand with written bid. Questions will be read twice by a judge to all teams. The team will have 20 seconds to discuss and write answers. At called time, the captain will stand at the table with the written answer. The judge will determine the correct response. Scores will be totaled after each response. The team with the highest score will be the winner.

Specifics of the above areas of competition will be detailed in additional documentation from the technical coordinator.

HEALTH OCCUPATIONS SKILLS GUIDELINES

PARTICIPANTS

Each school may enter up to two (2) participants and identify one (1) alternate in this area of competition. Students competing in the Health Occupations contest must be currently enrolled in a health care related program. Participants must arrive at the testing area approximately ten (10) minutes prior to the scheduled testing time. Participants **CANNOT ENTER** the testing room until called by the test proctor. **No observers are allowed in this competition.**

AREA OF COMPETITION

This area includes bed making and vital signs. **Each student MUST BRING Bed Linens!**--which should include: top sheet, bottom sheet, draw sheet, spread and pillow case. All equipment for assessing vital signs will be provided by the WCCS Practical Nursing Program.

PROCEDURES

Each participant will take a written test consisting of twenty-five (25) multiple choice questions. The test will be 30 minutes and will constitute twenty-five (25) percent of the evaluation.

Each participant will be allowed a 20-minute time limit to complete bed making and vital signs. These areas of competition constitute 75 percent of the evaluation.

Participants must perform palpated systolic blood pressures; oral temperature assessment; count the radial pulse and respirations; and record blood pressure, pulse rate, and respiration (+ or – 2) of the evaluator's assessment.

INDUSTRIAL MAINTENANCE TECHNOLOGY

PARTICIPANTS

This competition is limited to six (6) area vocational students.

AREA OF COMPETITION

Industrial Wiring Problem Solving Hands on Contest

20 Question Written Test covering basic AC/DC theory, basic hydraulics, and basic pneumatics.

PROCEDURES

Using the Amatrol AC/DC trainer, each student will complete two basic circuits, one series and one parallel. Voltage and amperage readings will be taken from each circuit. After completion of the hands on portion of the competition each student will receive a 20 question written test. The highest combined score of the written and hands on test will be the winner.

REQUIRED TOOLS

***A calculator is required for this contest.**

Students should be familiar with the following subjects:

- Ohms' Law
- Series circuits
- Parallel circuits
- Basic hydraulic fundamentals
- Basic Pneumatic fundamentals

MASONRY/BUILDING TRADES GUIDELINES

PARTICIPANTS

Each school may enter one (1) student in each area of competition.

AREAS OF COMPETITION

Brick Lying
Block Laying

PROCEDURES

Contestants will lay blocks or bricks. Contestants will be judged on his/her knowledge and physical technical skills. Each project will be judged by the following criteria:

- (a) plumb
- (b) level
- (c) square and range
- (d) measurements
- (e) correct design
- (f) manipulation
- (g) tooling and neatness
- (h) full joints
- (i) written test

The written test will be used as a tie breaker!

WELDING TECHNOLOGY GUIDELINES

PARTICIPANTS

Each school may enter up to four (4) participants from its senior class. The competition is limited to welding students in area vocational centers.

AREAS OF COMPETITION

TIG-MIG, OFC
Arc Welding

PROCEDURES

Procedures will be e-mailed to participating schools.

Each student's welding is evaluated by a team of judges who are highly qualified in the field. The welds are visually tested in accordance with the guidelines set forth in the **A.W.S. Code Book**. Students will be awarded points in each procedural area. The individual that accumulates the greatest number of points will be the overall winner.

Specifics of the above areas of competition will be detailed with additional documentation from the technical coordinator.