



WELD 1030 Blueprint Reading

COURSE SYLLABUS Spring Semester 2018

COURSE INFORMATION

Credit Hours/Minutes: 4/4500
Class Location: Metter HS
Class Meets: M-F High School appointed time
CRN: 20055

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Mr. Jason McDonald
Office Location: EDC/Room 105
Office Hours: By appointment only
Email Address: Jason.McDonald@southeasterntech.edu
Phone: 912-538-3180
Fax Number: 912-538-3156
Tutoring Hours (if applicable):

SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Handbook](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php) (<http://www.southeasterntech.edu/student-affairs/catalog-handbook.php>)

REQUIRED TEXT

Blueprint Reading for Welders 9th Edition by Bennett and Siy.

REQUIRED SUPPLIES & SOFTWARE

Notebook, pen, highlighter All students must have these items by the 1st day of class; no exceptions. You will not be permitted to borrow from the Instructor or your fellow classmates.

Students should not share login credentials with others and should change passwords periodically to maintain security.

COURSE DESCRIPTION

This course introduces the knowledge and skills for reading welding and related blueprints and sketches. An emphasis is placed on identifying types of welds, and the associated abbreviations and symbols

MAJOR COURSE COMPETENCIES

1. Basic Lines, Sketching and Sectional Views
2. Detailed Specifications and Isometrics

3. Structural Shapes and Joint Design
4. Welding Symbols and Abbreviations
5. Industry Welds and Fabrication

PREREQUISITE(S)

Program admission

COURSE OUTLINE

This course outlines: Basic Lines, Sketching, Basic and Sectional Views, Detailed Specifications and Isometrics, Structural Shapes and Joint Design, Welding Symbols and Abbreviations, Industry Welds and Fabrication.

GENERAL EDUCATION CORE COMPETENCIES

STC has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS

Tests and assignments must be completed on the specified date. Students are also responsible for policies and procedures in the Southeastern Technical College Catalog and Handbook.

ATTENDANCE GUIDELINES

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of "F" (Failing 0-59) and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an "F" in a course.

SPECIAL NEEDS

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, to coordinate reasonable accommodations.

SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please advise me and make appropriate arrangements with [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" is assigned for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" being assigned.

Informing your instructor that you will not return to his/her course, does not satisfy the approved withdrawal procedure outlined above.

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC...)

Makeup test will be given on the following class meeting date with an acceptable excuse approved by the instructor; any test not made up will result in the student receiving a zero.

ACADEMIC DISHONESTY POLICY

The Southeastern Technical College Academic Dishonesty Policy states that all forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the Southeastern Technical College Catalog and Handbook.

PROCEDURE FOR ACADEMIC MISCONDUCT

The procedure for dealing with academic misconduct and dishonesty is as follows:

1. First Offense

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

2. Second Offense

Student is given a grade of "WF"(Withdrawn Failing) for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

3. Third Offense

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION

The Technical College System of Georgia and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member or citizenship status (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer	Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 st Street, Vidalia Office 108 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie Jonas ljonas@southeasterntech.edu

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College's website.

ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee

within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.

GRADING POLICY

Assessment/Assignment	Percentage
Written Tests	100%

GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

WELD 1030 Blueprint Reading

Fall Semester 2018 Lesson Plan

Key: Aug – August Sep – September Oct-October Nov-November Dec - December

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
Aug 6	Unit 1 Basic Lines and Views	First day of class/Class Introduction—Syllabi, Outline, Rules, Regulations Coverage, Library Resources and tour. Unit 1 Basic Lines and Views	All tests are in Blackboard.	1,2,3,4,5 A,B,C
7	Basic Lines and Views	Unit 1 Basic Lines and Views	All tests are in Blackboard.	1,2,3,4,5 A,B,C
8	Basic Lines and Views	Unit 1 Basic Lines and Views	All tests are in Blackboard.	
9	Basic Lines and Views	Unit 1 Basic Lines and Views	All tests are in Blackboard.	1,2,3,4,5 A,B,C
10	Basic Lines and Views	Unit 1 Basic Lines and Views	All tests are in Blackboard.	1,2,3,4,5 A,B,C
13	Basic Lines and Views	Unit 1 Basic Lines and Views	All tests are in Blackboard.	1,2,3,4,5 A,B,C
14	Unit 2 Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
15	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
16	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
7	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
17	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
20	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
21	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
22	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
23	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
24	Sketching	Unit 2 Sketching	All tests are in	1,2,3,4,5 A,B,C
27	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
28	Sketching	Unit 2 Sketching Sketching Oblique, Isometric, Top, Front and Right Side	All tests are in Blackboard.	1,2,3,4,5 A,B,C
29	Unit 3 Notes and Specifications	Unit 3 Notes and Specifications Local, General and Specifications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
30	Notes and Specifications	Unit 3 Notes and Specifications Local, General and Specifications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
31	Notes and Specifications	Unit 3 Notes and Specifications Local, General and Specifications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
Sep 3	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
4	Notes and Specifications	Unit 3 Notes and Specifications Local, General and Specifications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
5	Notes and Specifications	Unit 3 Notes and Specifications Local, General and Specifications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
6	Notes and Specifications	Unit 3 Notes and Specifications Local, General and Specifications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
7	Unit 4 Dimensions	Unit 4 Dimensions Tolerances, Scale Sizes, Dimensioning Methods	All tests are in Blackboard.	1,2,3,4,5 A,B,C
10	Dimensions	Unit 4 Dimensions Tolerances, Scale Sizes, Dimensioning Methods	All tests are in Blackboard.	1,2,3,4,5 A,B,C
11	Dimensions	Unit 4 Dimensions Tolerances, Scale Sizes, Dimensioning Methods	All tests are in Blackboard.	1,2,3,4,5 A,B,C
12	Dimensions	Unit 4 Dimensions Tolerances, Scale Sizes, Dimensioning Methods	All tests are in Blackboard.	1,2,3,4,5 A,B,C
13	Dimensions	Unit 4 Dimensions Tolerances, Scale Sizes, Dimensioning Methods	All tests are in Blackboard.	1,2,3,4,5 A,B,C

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
14	Unit 5 Bill of Materials	Unit 5 Bill of Materials Preparing a Bill of Materials	All tests are in Blackboard.	1,2,3,4,5 A,B,C
17	Bill of Materials	Unit 5 Bill of Materials Preparing a Bill of Materials	All tests are in Blackboard.	1,2,3,4,5 A,B,C
18	Bill of Materials	Unit 5 Bill of Materials Preparing a Bill of Materials	All tests are in Blackboard.	1,2,3,4,5 A,B,C
19	Bill of Materials	Unit 5 Bill of Materials Preparing a Bill of Materials	All tests are in Blackboard.	1,2,3,4,5 A,B,C
20	Bill of Materials	Unit 5 Bill of Materials Preparing a Bill of Materials	All tests are in Blackboard.	1,2,3,4,5 A,B,C
21	Unit 6 Structural Shapes	Unit 6 Structural Shapes	All tests are in Blackboard.	1,2,3,4,5 A,B,C
24	Structural Shapes	Unit 6 Structural Shapes	All tests are in Blackboard.	1,2,3,4,5 A,B,C
25	Structural Shapes	Unit 6 Structural Shapes	All tests are in Blackboard.	1,2,3,4,5 A,B,C
26	Structural Shapes	Unit 6 Structural Shapes	All tests are in Blackboard.	1,2,3,4,5 A,B,C
27	Structural Shapes	Unit 6 Structural Shapes	All tests are in Blackboard.	1,2,3,4,5 A,B,C
28	Unit 9 Detail, Assembly and Subassembly Drawings	Unit 9 Detail, Assembly and Subassembly Drawings	All tests are in Blackboard.	1,2,3,4,5 A,B,C
Oct 1	Detail, Assembly and Subassembly Drawings	Unit 9 Detail, Assembly and Subassembly Drawings	All tests are in Blackboard.	1,2,3,4,5 A,B,C
2	Detail, Assembly and Subassembly Drawings	Unit 9 Detail, Assembly and Subassembly Drawings	All tests are in Blackboard.	1,2,3,4,5 A,B,C
3	Detail, Assembly and Subassembly Drawings	Unit 9 Detail, Assembly and Subassembly Drawings	All tests are in Blackboard.	1,2,3,4,5 A,B,C
4	Detail, Assembly and Subassembly Drawings	Unit 9 Detail, Assembly and Subassembly Drawings	All tests are in Blackboard.	1,2,3,4,5 A,B,C
5	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
8	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
9	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
10	Unit 10 Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
11	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
12	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
15	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
16	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
17	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
18	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
19	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
22	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
23	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
24	Welding Symbols	Unit 10 Welding Symbols and Abbreviations	All tests are in Blackboard.	1,2,3,4,5 A,B,C
25	Unit 11 Basic Joints for Weldment Fabrications	Unit 11 Basic Joints for Weldment Fabrications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
26	Basic Joints for Weldment Fabrications	Unit 11 Basic Joints for Weldment Fabrications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
29	Basic Joints for Weldment Fabrications	Unit 11 Basic Joints for Weldment Fabrications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
30	Basic Joints for Weldment Fabrications	Unit 11 Basic Joints for Weldment Fabrications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
31	Basic Joints for Weldment Fabrications	Unit 11 Basic Joints for Weldment Fabrications	All tests are in Blackboard.	1,2,3,4,5 A,B,C
Nov 1	Unit 12 Fillet Welds	Unit 12 Fillet Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
2	Fillet Welds	Unit 12 Fillet Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
5	Fillet Welds	Unit 12 Fillet Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
6	Fillet Welds	Unit 12 Fillet Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
7	Unit 13 Groove Welds	Unit 13 Groove Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
8	Groove Welds	Unit 13 Groove Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
9	Groove Welds	Unit 13 Groove Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
12	Groove Welds	Unit 13 Groove Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
13	Groove Welds	Unit 13 Groove Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
14	Unit 14 Back or Backing and Melt Thru Welds	Unit 14 Back or Backing and Melt Thru Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
15	Back or Backing and Melt Thru Welds	Unit 14 Back or Backing and Melt Thru Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
16	Back or Backing and Melt Thru Welds	Unit 14 Back or Backing and Melt Thru Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
19	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
20	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
21	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
22	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
23	HOLIDAY	NO CLASS	NO CLASS	HOLIDAY
26			All tests are in Blackboard.	1,2,3,4,5 A,B,C
27	Unit 15 Plug and Slot Welds	Unit 15 Plug and Slot Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
28	Plug and Slot Welds	Unit 15 Plug and Slot Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
29	Plug and Slot Welds	Unit 15 Plug and Slot Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
30	Unit 16 Surfacing Welds	Unit 16 Surfacing Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
Dec 3	Surfacing Welds	Unit 16 Surfacing Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
4	Surfacing Welds	Unit 16 Surfacing Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
5	Surfacing Welds	Unit 16 Surfacing Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
6	Surfacing Welds	Unit 16 Surfacing Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
7	Unit 17 Edge Welds	Unit 17 Edge Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
10	Edge Welds	Unit 17 Edge Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
11	Unit 18 Spot Welds	Spot Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
12	Spot Welds	Spot Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
13	Unit 20 Seam Welds	Unit 20 Seam Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
14	Seam Welds	Unit 20 Seam Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
17	Stud Welds	Unit 21 Stud Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
18	Unit 21 Stud Welds	Unit 21 Stud Welds	All tests are in Blackboard.	1,2,3,4,5 A,B,C
19	Reviewing for Final Exam	Reviewing for Final Exam	Study Guide	1,2,3,4,5 A,B,C
20	FINAL EXAM	FINAL EXAM	FINAL EXAM	1,2,3,4,5 A,B,C

COMPETENCY AREAS

1. Basic Lines, Sketching and Sectional Views
2. Detailed Specifications and Isometrics
3. Structural Shapes and Joint Design
4. Welding Symbols and Abbreviations
5. Industry Welds and Fabrication

GENERAL CORE EDUCATIONAL COMPETENCIES

- A. The ability to utilize standard written English.
- B. The ability to solve practical mathematical problems.
- C. The ability to read, analyze, and interpret information.