Open Enrollment Courses for Industry Professionals

A New Approach for a Greater Impact
Lone Star Corporate College offers customized consulting, training and talent development programs for employers and their workforce. In addition, we offer professional development, CEU requirements and prepare clients to successfully pass state and U.S. accredited exams.

**One Source for Customized Business Solutions & Employee Development**

One of the goals of the Lone Star Corporate College is to help companies, organizations and individuals invest in our most valuable regional asset - the people. An investment in developing your organizations' talent will set you apart from the competition. Lone Star Corporate College is designed to provide business solutions and opportunities for organizations to succeed in today's knowledge based, high tech economy. The concept includes a strategic initiative focused on professional development and customized training programs designed to meet employers' demands for a talented workforce.

**Key Goals**
- Achieve Organization Growth
- Assist in Workforce Planning and Leadership Succession
- Create and Retain Jobs
- Foster Innovation
- Increase Productivity and Profitability

**Mission**

Lone Star Corporate College’s mission is to strategically partner with organizations to assist with innovation and productivity, thereby adding profitability through investment in employee training and education. By analyzing a company’s business needs, Corporate College professionals develop customized training and talent development solutions required for a highly skilled and effective workforce.

**The Corporate College Team**

The team of Business Training Consultants focuses on employers in the Lone Star College services areas. Our goal is to ensure that solution details are carried out to the highest satisfaction of our clients. And, of course, our team would not be complete without our highly talented, experienced trainers and subject matter experts.

**Custom Solutions**

Whether you need onsite or online instruction, and whether you prefer customized training or open enrollment courses, Lone Star Corporate College works around your schedule and your needs while always guaranteeing high-quality, results-oriented, relevant solutions. Additional benefits include: college credit for attendees (CEUs or transfer credits), curriculum design experts, a source from which to recruit new employees, vast instructional resources, and the confidence that these instructional resources are well qualified.
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A+  
**CompTIA.** A study of current personal computer hardware including personal computer assembly and upgrading, setup and configuration, and troubleshooting. The A+ Certification Training Program prepares individuals for a career as a computer technician in the information technology industry. This course covers the various responsibilities and tasks required for a computer technician to successfully perform in a customer environment.

*Course Hours: 96*

**ORACLE**

**Oracle: Introduction to SQL**

Learn the concepts of relational database and control privileges at the object and system level, as well as the essential SQL skills to write queries against single and multiple tables, manipulate data in tables, and create database objects. This workshop is designed for application developers, business analysts, data warehouse administrators, developers, forms developers, PL/SQL developers, and system analysts (NOTE: While appropriate for a 10g audience, there are differences between 10g and 11g features). In this workshop, you will learn how to create reports of sorted and restricted data, run data manipulation statements (DML) to update data, control database access to specific objects, manage schema objects, manage objects with data dictionary views, and retrieve row and column data from a table.

*Course Hours: 40*

**Oracle: Administration Workshop I**

This course is your first step to success as an Oracle professional, designed to give you a firm foundation in basic database administration. This program is designed for database administrators, Java developers, support engineers, technical administrators, and technical consultants to prepare for the corresponding Oracle Certified Associate exam. In this workshop, you will learn how to: install and maintain an Oracle database; gain a conceptual understanding of the Oracle database architecture; create an operational database and properly manage the various structures in an effective and efficient manner including performance monitoring, database security, user management, and backup/recovery techniques.

*Course Hours: 40*

**Oracle: Administration Workshop II**

This course takes the database administrator beyond the basic tasks in the first workshop. You’ll gain a deeper understanding of one of the most important jobs of a DBA – backup and recovery. Required prerequisites include: Oracle Database 11g & Administration Workshop 1 Release 2. This program is designed for database administrators, support engineers, technical administrators, and technical consultants to prepare for the corresponding Oracle Certified Associate exam. In this workshop, you will learn how to automate DBA tasks with the scheduler; diagnose and repair data failures with Flashback technology; manage space to optimize database storage and to be able to respond to growing space requirements; monitor and manage major database components, including as memory, performance and resources; and secure the availability of your database by appropriate backup and recovery strategies.

*Course Hours: 40*

**Oracle: RAC Administration**

In this course, you will learn about RAC database management in the Oracle Grid Infrastructure environment. In addition, you will also learn to administer cluster databases using Enterprise Manager and command-line utilities like SRVCTL, CRSCTL, and SQL Plus. Other topics will include new connection architecture, as well as backup and recovery issues related to cluster database environments. Oracle database administration experience is a required prerequisite for this course. This program is designed for data warehouse administrators, database administrators, database designers, functional implementers, support engineers, system analysts, technical administrators, and technical consultants.

*Course Hours: 36*

**PROJECT MANAGEMENT**

**PROJECT MANAGEMENT CERTIFICATION**

**Project Management Fundamentals I**

Designed for project managers and team leaders; product development managers; engineers; marketing; operations; R&D and construction managers; functional and line managers who deal with project managers; and team members who manage tasks and sub-tasks on projects. Methods for planning and controlling projects. Includes project management concepts and models, critical path, analysis of time/cost benefits, and resource utilization.

*Course Hours: 20*
Business Management

Project Management Certificate

This program is designed for Professionals preparing for the Project Management Institute® or PMP® certification exam. Learn how to successfully prepare for the Project Management Institute’s® prestigious PMP® Certification Exam.

Project Management Professional (PMP) Certification Exam Preparation (3 days)
Complete Fundamentals Part 1 & 2 prior to taking the PMP prep course. These can be completed over five consecutive days or taken at separate times.

Who should attend?
Professionals preparing for the Project Management Institute® or PMP® certification exam.

Objective
Develop a model for organizing and remembering the information in the PMBOK® Guide necessary for the PMP certification exam.

For more information contact michael.burns@LoneStar.edu

Project Management Fundamentals II
Continuation of Project Management Fundamentals Part I - Designed for project managers and team leaders; product development managers; engineers; marketing; operations; R&D and construction managers; functional and line managers who deal with project managers; and team members who manage tasks and sub-tasks on projects. Methods for planning and controlling projects. Includes project management concepts and models, critical path, analysis of time/cost benefits, and resource utilization.
Course Hours: 20

Project Management Exam Preparation

Based on the project life cycle - and not just by knowledge area, this course covers the project management framework, context and process, in accordance with the PMBOK® Fourth Edition, including: Methods for planning and controlling projects. Includes project management concepts and models, critical path, analysis of time/cost benefits, and resource utilization. Review sessions include: Initiating Processes Core Project Planning, Facilitating Project Execution Processes, Core and Facilitating Project Control Processes.
Course Hours: 24

LEAN SIX SIGMA

Lean Six Sigma: Green Belt
The online Lean Six Sigma Green Belt Preparation course is comprised of 11 separate sessions and 57 contact hours, that follow the Define-Measure-Analyze-Improve-Control (DMAIC) project phase structure. Each session is a collection of related lessons and includes an interactive quiz at the end of the session. Individual lessons also include simulations and interactive practice exercises. The course is facilitated by a Champion Black Belt.
Course Hours: 57
Exam Prep: ASQ (offsite)

Lean Six Sigma: Black Belt
This eight week, instructor-led hybrid Lean Six Sigma course is designed to take certified Green Belts to the Black Belt level. Black Belt certification will train participants to serve as process improvement project team leaders. Participants will learn problem solving tools and basic statistical techniques and will be required to apply their knowledge to a project they will complete. This course follows the Define, Measure, Analyze, Improve, Control (DMAIC) methodology.
Course Hours: 62
Exam Prep: ASQ (offsite)

Lean Six Sigma: For Managers
This eight week, instructor-led hybrid Lean Six Sigma course is designed to take certified Green Belts to the Black Belt level. Black Belt certification will train participants to serve as process improvement project team leaders. Participants will learn problem solving tools and basic statistical techniques and will be required to apply their knowledge to a project they will complete. This course follows the Define, Measure, Analyze, Improve, Control (DMAIC) methodology.
Course Hours: 62
Exam Prep: ASQ (offsite)
SUPERVISOR I

Supervision, Introduction
Discussion of basic supervisory tasks, performance skills, common problems encountered, and effective solution strategies.
Course Hours 8

Communication Skills for Managers
Basic theory of communication skills as appropriate and applicable to individuals or groups in the business environment. Includes listening, speaking, writing, and communicating non-verbally.
Course Hours 8

Supervisors, Legal Issues
Prepares supervisors to handle basic human resource functions in a way that will assure the best possible result. Emphasizes employee rights and the legal aspects of supervision.
Course Hours 8

Time Management
Focus will be on more effective use of time through awareness and organization. Special emphasis will be placed on recognizing what really needs to be done and when.
Course Hours 8

SUPERVISOR II

Employee Performance Review
A course to provide organizational leaders with methods to conduct discussions on workplace performance. Topics include identifying performance situations which require action and preparing for a collaboration performance review.
Course Hours 8

Lead Effective Meetings
Learn to bring focus to every agenda, handle disruptions with ease and condense meetings for more productive use of time.
Course Hours 8

Team Building in the Workplace
Basic principles of building and sustaining teams in organizations. Includes team dynamics, process improvement, trust and collaboration, and the role of the individual in the team.
Course Hours 8

Problem Solving
Interpreting data for effective problem solving and recommending corrective action. Emphasizes structured approaches to critical thinking and problem solving in the workplace.
Course Hours 8

FRONTLINE SUPERVISION
This practical, interactive training program is designed to equip new leaders with the tools to manage and develop direct reports. Participants will learn strategies for creating open communication and developing greater self-reliance in those they manage. In addition, each module’s between-session assignments are designed to increase the frequency and quality of conversations about performance and development between supervisor and direct report. The course was designed for new and aspiring supervisors; current supervisors; leads, foremen, and any other first-line supervisor responsible for managing workers.
Course Hours: 40
ADDITIONAL SUPERVISION COURSES

**Human Resources Management Exam Prep**
This instructor-led hybrid program prepares human resources professionals to take the nationally recognized Professional in Human Resources (PHR®) and Senior Professional in Human Resources (SPHR®) certification exams. Participants will identify their existing weaknesses and strengths in preparing to take these exams. Upon earning these certifications, participants will be able to demonstrate their knowledge of best practices in human resources management, increase their marketability, and build credibility within their organization. This program is designed for professionals who have at least two years’ experience in human resources and are looking to develop their skills for more advanced positions.
Course Hours: 36
Embedded Industry Certification/Certification Exam Prep: Professional in Human Resources (PHR®) and Senior Professional in Human Resources (SPHR®) certification exams

**Train the Technical Trainer**
This certification program is designed for project managers and team leaders; product development managers; engineers; marketing professionals; operations professionals; R&D and construction managers; functional line managers who deal with project managers; and team members who manage task and sub tasks on projects.
Course Hours 8

**COMPUTER TECHNOLOGY**

**WEB DESIGNER**

**Web Designer 1**
Students will begin by learning the basics of website functionality HTML I, Website Development
This course will focus on the use of the World Wide Web (WWW) and the creation of a home page. Web browsers and Hypertext Markup Language (HTML) are discussed. Plan the content, structure, and layout of a web site that you create using HTML. Includes tables, hot buttons, animations, and comparison of browsers.
Course Hours: 32

**Photoshop I for Web**
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student in web design and web development. Course content with focused modules on Copyright Law and licensing considerations, web graphic formats, image layers and blending, image export and delivery.
Course Hours: 24

**HTML II: Website Development (Advanced)**
Instruction in more technical and in-depth uses of HTML and the internet in business and service-related opportunities. Application of styles to a website and introduction to CSS best practices, layout and techniques.
Course Hours: 24

**Photoshop II for Web**
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student in web design and web development. Course content with focused modules on typographical design, vector drawing techniques, advanced filtering and creating a professional web gallery.
Course Hours: 24
**Oracle Database Administrator**

Oracle continues to be one of the most popular relational database management system (RDBMS) software programs in the IT industry today. It can be found on every version of UNIX, most versions of Windows, and a variety of other platforms.

*Coming soon!*

For more information contact Michael.Burns@LoneStar.edu

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**WEB DEVELOPER**

**HTML I, Website Development**

This course will focus on the use of the World Wide Web (WWW) and the creation of a home page. Web browsers and Hypertext Markup Language (HTML) are discussed. Plan the content, structure, and layout of a web site that you create using HTML. Includes tables, hot buttons, animations, and comparison of browsers.

*Course Hours: 32*

**Photoshop I for Web**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student in web design and web development. Course content with focused modules on Copyright Law and licensing considerations, web graphic formats, image layers and blending, image export and delivery.

*Course Hours: 24*

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**HTML II: Website Development (Advanced)**

Instruction in more technical and in-depth uses of HTML and the internet in business and service-related opportunities. Application of styles to a website and introduction to CSS best practices, layout and techniques.

*Course Hours: 24*

**WordPress I**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Identifying the factors for a data driven site with CMS vs. a Static Site including review of all the options of WordPress, Joomla and Drupal. Recognizing the components and practical usage of WordPress.

*Course Hours: 24*

**WordPress II**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. This course includes extending knowledge of WordPress I into advanced practices with PHP, MySQL and jQuery. Course modules vary from embedding PH)P in HTML, adding dynamic content to web, learning how to employ variables and conditional logic.

*Course Hours: 32*

**Designing Effective Websites**

Computer application and knowledge necessary to perform specific operations in a particular occupational setting. Varied design techniques to create a responsive website with inclusion of mobile platforms and delivery techniques.

*Course Hours: 16*

**SEO: Analytics and Tracking**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Students develop skill set to survey search engines and indexes using tools including Google, Woopra and others. Develop SEO best practices.

*Course Hours: 16*
**ENGINEERING DESIGN GRAPHICS**

**AUTOCAD DRAFTSMAN**

**AutoCAD, Introduction**
Topics include CAD-CAM equipment selection and interface; software selection and installation; creating, editing and plotting of line drawings for architectural, electrical, circuit, mechanical, or interior design; creating, storing and retrieving predefined components; line, circle, arc, trace, curve, ellipses; adding text and dimensions.
Course Hours: 32

**AutoCAD, Intermediate**
Topics include applications; creating, sorting, and retrieving predefined components; placing, rotating, and scaling components; modifying; rubber banding; adding text and dimensions to drawings; multilayering drawings, grids, orthogonal mode; data storage format for writing auxiliary programs; input and output devices; resolution and physical limitations.
Course Hours: 32

**AutoCAD, Advanced**
Two- and three-dimensional drawings using three-dimensional display options and specifying user-defined coordinate systems.
Course Hours: 32

**SOLID MODEL DESIGN**

**SolidWorks I**
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. This course addresses training in the design software SolidWorks.
Course Hours: 30

**SolidWorks II**
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. This course addresses training in a more advanced level of the design software SolidWorks.
Course Hours: 30

**ENGINEERING TECHNOLOGY**

**ENGINEERING PRE APPRENTICE**

**Industrial Equipment Maintenance**
Maintenance and repair of power transmission systems involving gear, V-belt, and chain drives with emphasis on both plain and anti-friction bearings. Introduces theory of various types of pumps and compressors. Laboratory activities include maintenance, repair, and overhaul procedures used on common process pumps and compressors.
Course Hours: 64

**Introduction to Industrial Maintenance**
Basic mechanical skills and repair techniques common to most fields of industrial maintenance. Topics include precision measuring instruments and general safety rules common in industry, including lock-out/tag-out. Course provides an introduction to preventive maintenance of equipment associated with general industrial production. Instruction will include diagnosing and repairing hydraulic, pneumatic, and electrical systems related to industrial equipment.
Course Hours: 80

**MACHINING TECHNOLOGY**

**MACHINING PRE-APPRENTICE**

**Basic Machine Shop I**
An introductory course that assists the student in understanding the machinist occupation in industry. The student begins by using basic machine tools such as the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Emphasis is placed on shop safety, housekeeping, and preventative maintenance.
Course Hours: 64

**Blueprint Reading & Sketching**
An introduction to reading and interpreting working drawings for fabrication processes and associated trades. Use of sketching techniques to create pictorial and multiple-view drawings.
Course Hours: 48

**Machine Shop Mathematics**
Designed to prepare the student with technical, applied mathematics that will be necessary in future machine shop-related courses. 64
Course Hours: 64
MACHINE TOOL (CNC) OPERATOR

Fundamentals of CNC Machine Controls
An introduction to G and M codes (RS274-D) necessary to program Computer Numerical Controlled (CNC) machines. Emphasis is placed on lathe and mill programming techniques and structures, CNC controller types and overall machine operation. 48 hrs 
Course Hours: 48

Operation of CNC Machining Centers
A continuation of Fundamentals of CNC Machine Controls with an emphasis on machining centers. Prerequisite: Fundamentals of (CNC) Machine Controls CMCHN 2200301. 64 hrs 
Course Hours: 64

Operation of CNC Turning Centers
Course Hours: 64

OTHER MACHINING TECHNOLOGY

Basic Machine Shop
An introductory course that assists the student in understanding the machinist occupation in the industry. The student begins by using basic machine tools such as the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Emphasis is placed on shop safety, housekeeping, and preventative maintenance. 
Course Hours: 64

Fundamentals of CNC Machine Controls
An introduction to G and M codes (RS274-D) necessary to program Computer Numerical Controlled (CNC) machines. Emphasis is placed on lathe and mill programming techniques and structures, CNC controller types and overall machine operations. 
Course Hours: 48  Customized Training: Yes

Machine Shop Mathematics
Designed to prepare the student with technical, applied mathematics that will be necessary in future machine shop-related courses. 
Course Hours: 64  Customized Training: Yes

Operation of CNC Machining Centers
A continuation of Fundamentals of CNC Machine Controls with an emphasis on machining centers. Prerequisite: Fundamentals of (CNC) Machine Controls 
Course Hours: 64  Customized Training: Yes

Operation of CNC Turning Centers
A continuation of Fundamentals of CNC Machine Controls with an emphasis on machining centers. Prerequisite: Fundamentals of (CNC) Machine Controls 
Course Hours: 64  Customized Training: Yes

MANAGEMENT TECHNOLOGY

Advanced Computer-Aided Manufacturing (CAM)
A study of advanced techniques in Computer-Aided Manufacturing (CAM). 
Course Hours: 128

OIL & GAS TECHNOLOGY

FUNDAMENTAL TO OIL & GAS INDUSTRY

Basic
An introduction to the various aspects of petroleum industry including equipment, systems, instrumentation, operations, and the various scientific principles. Addresses a variety of petroleum technologies: exploration, drilling, production, transportation, marketing, and chemical processing industries. 
Course Hours: 128

Math
An introduction to the various aspects of petroleum industry including equipment, systems, instrumentation, operations, and the various scientific principles. Addresses a variety of petroleum technologies: exploration, drilling, production, transportation, marketing, and chemical processing industries. 
Course Hours: 128

Drilling Manager Competency Training
This course is a hands-on training program that teaches the specific competencies necessary for an entry-level roustabout, with an emphasis on zero-tolerance safety. Instruction includes use of tools and equipment used to perform material handling and rig maintenance functions, the care and handling of tubular products, and helicopter operations. 
Course Hours: 80

OTHER OIL & GAS INDUSTRY

Español
Energy & Manufacturing

WellCAP®

WELDING TECHNOLOGY

GAS METAL WELDER (MIG)

Gas Metal Arc Welding (MIG) Part I
This course covers manipulative skills in welding techniques, applications, and theory. Knowledge and skills in Gas Metal Arc Welding using mild steel; perform fillet welds in the flat, horizontal, vertical, and overhead positions. Students work independently in the welding booth under the guidance of an instructor to meet and/or exceed the competencies. Written test and visual guidance are given.
Course Hours: 40

Gas Metal Arc Welding (MIG) Part II
This course covers manipulative skills in welding techniques, applications, and theory. Topics in GMAW welding including welding in various positions and directions. Student will exhibit expertise in various welding positions on pipe; describe safety rules and equipment use; and describe the effects of welding parameters in GMAW.
Course Hours: 40

SHIELDED METAL WELDER (SMAW)

Shielded Metal Arc Welding (SMAW) Part I
Students will develop knowledge and skills in the welding process; safety and health, use and care of hand tools, and five essentials of shielded metal arc, strike and control the arc, run a straight bead in the flat position, complete a series of beads, and restart a continuous bead and fill the crater; perform fillet welds in the flat, horizontal, vertical, and overhead positions; discuss electrode selection, power sources, and safety. Students work independently in the welding booth under the guidance of an instructor to meet and/or exceed the competencies. Break test may be used.
Course Hours: 40

Shielded Metal Arc Welding (SMAW) Part 2
This course continues the theory and practice of shielded metal arc welding (SMAW) processes. Skill in the welding process and the selection of materials and equipment will be stressed.
Course Hours: 40

GAS TUNGSTEN WELDER (TIG)

Gas Tungsten Arc Welding (TIG) Part I
This course covers advanced principles of welding with emphasis on special processes and special needs of students. An introduction to the principles of gas tungsten arc welding (GTAW), set-up, use of GTAW equipment, and safety. Welding instruction in various positions on joint designs. 40 hrs
Course Hours: 40

Gas Tungsten Arc (TIG) Part II
This course covers advanced principles of welding with emphasis on special processes and special needs of students. 40 hrs
Course Hours: 40

PIPE WELDER

Shielded Metal Arc Pipe Part I
This course covers pipe welding techniques and applications. Students will acquire advanced knowledge and skills in Shielded Metal Arc Welding using mild steel; perform 1G or roll out in pipe and start working towards 2G or vertical in fixed position.
Course Hours: 40

Shielded Metal Arc Pipe Part II
This course covers pipe welding techniques and applications. Students will acquire advanced knowledge and skills in Shielded Metal Arc Welding using mild steel; perform 2G or vertical in fixed position and start working towards 5G or horizontal in fixed positions.
Course Hours: 40

WELDING INSPECTOR EXAM PREP

Welding Inspection Preparation Part I
General principles of welding inspection including welding processes, terms and definitions, welding discontinuities, duties and responsibilities of inspectors, destructive and nondestructive testing, quality assurance/quality control, welding codes and blueprints, procedures, and case studies. An overview of welding tools and equipment, metallurgy, chemistry, and joint design.
Course Hours: 48

Welding Inspection Preparation Part II
General principles of welding inspection including welding processes, terms and definitions, welding discontinuities, duties and responsibilities of inspectors, destructive and nondestructive testing, quality assurance/quality control, welding codes and blueprints, procedures, and case studies. An overview of welding tools and equipment, metallurgy, chemistry, and joint design.
Course Hours: 48
OTHER WELDING TECHNOLOGY

Basic Welding
Principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs.
Course Hours: 80

Blueprint Reading for Welders
Symbols/graphic language required in the interpretation of working drawings for specific occupations. Reading and interpreting blueprints including information on computer-aided design and computer numerical control. Students will develop the skills needed to interpret all types of working sketches and prints, from the simplest to the most complex, through step-by-step instructions. Both AWS and ISO welding symbols are covered, as well as auxiliary views, detail views, projections, sections, and detail and assembly drawings. Other topics covered include pipe welding symbols, metric and dual dimensioning, bills of materials, ISO for welding, and first and third angle orthographic projection.
Course Hours: 30

Gas Tungsten Arc Welding
Principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs.
Course Hours: 10 Customized Training: Yes

RigPass®
This course is intended to prepare drilling industry workers to conduct their work safely and in a manner that protects the environment. Rig Pass certification indicates that the worker has attained proficiency in the areas of personal health and safety equipment, knowledge of safety practices on the rig and platform, environmental protection, and safety in onshore and offshore operations, as applicable.
Course Hours: 8

Shielded Metal Arc Welding
An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.
Course Hours: 10 Customized Training: Yes

Welding Inspector
General principles of welding inspection including welding processes, terms and definitions, welding discontinuities, duties and responsibilities of inspectors, destructive and nondestructive testing, quality assurance/quality control, welding codes and blueprints, procedures and case studies. An overview of welding tools and equipment, metallurgy, chemistry, and joint design.
Course Hours: 5
Embedded Industry Certification/Certification Exam Prep: Prepares for AWS Examination

Welding Metallurgy I
An introduction to physical metallurgy and its application related to welding including studies of metal characteristics, testing, effects of alloying and heat treating, and basic properties. Emphasis on conducting tests and metallurgical techniques.
Course Hours: 10 Customized Training: Yes

Welding Technology
Principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs.
Course Hours: 80

OTHER ENERGY & MANUFACTURING CLASSES

Forklift Operator Certification
Information and training for forklift operators including forklift design, controls and instrumentation, comprehensive pre-use inspection, and forklift stability and factors affecting stability.
Course Hours: 8

Blueprint Reading & Sketching (48 Hours)
An introduction to reading and interpreting working drawings for manufactured products and associated tooling; use sketching techniques to create pictorial and multiple-view drawings. The student will solve related math equations, geometric dimensioning and tolerance; and interpreted shop operations.
Course Hours: 48 Customized Training: Yes

Certified Logistics Associate (CLA)
This certification provides students with the foundational knowledge needed to understand the world of supply chain logistics and related core competencies.
Course Hours: 36
Embedded Industry Certification/Certification Exam Prep: MSSC

Certified Logistics Technician (CLT)
This certificate program is designed to address the core competencies of higher skilled, front-line material handling workers (entry-level to first line of supervision) across the supply chain: from factories, to warehouses, to distribution centers to transporters.
Course Hours: 36
Embedded Industry Certification/Certification Exam Prep: MSSC

DC/AC Circuits (10 days)
Course Hours: 24
Energy & Manufacturing

**Basic Electricity DC/AC Circuits**
Fundamentals of DC circuits and AC circuits operation including Ohm’s law, Kirchhoff’s laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. Not intended for Engineering Technology A.A.S. majors
Course Hours: 12

**Proper Use Of Hand Tools**
Principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs.
Course Hours: 8

**Global Logistics**
This course introduces participants to the international components of logistics focused on international commerce. To provide both an understanding of the logistical issues that organizations are faced with when trading internationally and an introduction to specialized techniques that organizations purchasing internationally will need to employ. Topics include export import issues, multi-national sourcing and distribution strategies, channel management, and comparative transportation systems and policies.
Course Hours: 48

**Hydraulics**
Discussion of the fundamentals of hydraulics and pneumatics, components of each system and the operations, maintenance, and analysis of each system.
Course Hours: 24

**Pneumatics**
Discussion of the fundamentals of hydraulics and pneumatics, components of each system and the operations, maintenance, and analysis of each system.
Course Hours: 24

**Electronics**
Devices, circuits, and systems primarily used in automated manufacturing and/or process control including computer controls and interfacing between mechanical, electrical, electronic, and computer equipment. Includes presentation of programming schemes.
Course Hours: 10

**Industrial Equipment Maintenance**
Maintenance and repair of power transmission systems involving gear, V-belt, and chain drives with emphasis on both plain and anti-friction bearings. Introduces theory of various types of pumps and compressors. Laboratory activities include maintenance, repair, and overhaul procedures used on common process pumps and compressors.
Course Hours: 64       Customized Training: Yes

**Industrial Maintenance Technology, Basic**
Basic mechanical skills and repair techniques common to most fields of industrial maintenance. Topics include precision measuring instruments and general safety rules common in industry, including lock-out/tag-out.
Course Hours: 10       Customized Training: Yes

**Liquid Penetrant/Magnetic Particle Testing**
An in-depth study of corrosion control of buried or submerged metallic structures utilizing both impressed and galvanic cathodic protection systems. Emphasis on regulatory compliance for pipelines and underground storage tanks.
Course Hours: 10
Embedded Industry Certification/Certification Exam Prep: Level 1 and Level II

**Manufacturing Metal Processes**
A basic study of various materials used in the manufacturing industry and the chemical, physical, and mechanical properties of various materials. Emphasis on manufacturing processes, including casting, forming, and machining.
Course Hours: 48

**Motor Controls**
General principles and fundamentals of electrical controls and control components including starters troubleshooting techniques, various protective devices, schematics, and diagrams. Student will develop hands-on skills using transformer, motors, magnetic control devices, relays, time delay circuits, reversing circuits and other control input devices.
Course Hours: 10

**Instrumentation**
Study of instruments, instrument systems, terminology, process variables, and control coops as used in a petroleum environment.
Course Hours: 10

**Programmable Logic Controllers**
A study in programmable controllers. Topics include processor units, numbering systems, memory organization, relay type devices, timers, counters, data manipulators, and programming and troubleshooting skills on a cross section of industrial PLC’s
Course Hours: 40

**Pumps, Compressors & Mechanical Drivers**
A study of the theory and operations of various types of pumps and compressors. Topics include mechanical power transmission systems including gears, v-belts, and chain drives.
Course Hours: 40

**Ultrasonic Testing**
Applications of the ultrasonic techniques of materials testing for flaw sizing and characterization.
Course Hours: 8
Embedded Industry Certification/Certification Exam Prep: Level 1 and Level II
Open enrollment ESOL program focuses on everyday survival as well as workforce skills. This is an intensive in-depth program consisting of 6 levels of instruction from beginning to advanced levels. The program includes the following courses:

**COMMUNICATION**

**Communication for Workplace I**
Designed for students whose primary language is other than English. Presentation of industry-related basic reading, writing, speaking, and listening skills. Emphasis on high-frequency vocabulary (basic sight words) and phonics; refining oral and written production and listening skills for enhanced job productivity; and increasing control of the English sound system to minimize on the job miscommunication or misperception due to foreign accent. The course provides learners with coping skills and cultural information necessary for written and oral workplace communication. It offers learners the opportunity to develop, practice and apply the basic structures of English, and to perform simple speaking, reading, and writing job-related tasks. Students enrolled in this course should have basic literacy skills in their native language and be familiar with Roman script.
Course Hours: 64

**Communication for Workplace II**
Provides on-the-job dynamic communicative practice for students whose primary language is other than English, exposing students to the uses of language in a variety of relevant job-related contexts. This course helps increase proficiency in speaking and writing skills necessary for successful communication. Students gain mastery in the use of the basic structures of the language and can perform practical work-related oral and written tasks. The course focuses on continued emphasis on high-frequency vocabulary and phonics; and extensive practice in occupational reading, comprehension, listening, and speaking.
Course Hours: 64

**Communication for Workplace III**
Improvement in reading vocabulary/comprehension skills, as well as speaking, writing, and listening skills for job success. Focus on recognition and comprehension of idioms, analogies, antonyms, and synonyms, and context clues. Interpretation of factual material and inferences associated with job-related communication. Students increase their degree of fluency, accuracy, and comprehension in listening, speaking, writing, and reading skills necessary to satisfy the job demands. The course expands students’ active vocabulary and comprehension of short paragraphs and enables them to work toward mastery of the major structures of the language as well as the basic mechanics of writing for professional communication.
Course Hours: 64

**Communication for the Workplace IV**
Designed for students whose primary language is other than English. Focus on comprehending challenging industrial and job-related materials. Emphasis on industry-related vocabulary development and skills acquisition, including determining meaning from context, identifying word forms and variation in meaning, synonyms and antonyms, context clues, connotation and denotation, and fact and opinion. This course continues to provide dynamic communicative practice, exposing students to the uses of language in a variety of job-related contexts. This course enhances students’ ability to interact and exchange information, take surveys, role-play situations, and discuss various everyday situations and job-related topics.
Course Hours: 64

**Communication V: Listening and Speaking (96 hours)**
This course is for English language learners who wish to transition to college. The course is focusing on listening and speaking skills necessary for personal, academic and professional communication.

**Communication V: Reading and Writing**
This course is for English language learners who wish to transition to college. The course is focusing on reading and writing techniques that will allow the students to read and comprehend multi-page narratives and critically respond to it in writing.
Course Hours: 96

**Communication VI: Listening and Speaking**
This is course is designed for English language learners who wish to transition to college and need to improve their listening and speaking. The course is focusing on oral communication techniques that will allow the students to acquire advance skills in speaking and comprehension of short lectures and presentations on a variety of topics.
Course Hours: 96

**Communication VI: Reading and Writing**
This course is designed for English language learners who wish to transition to college and need to improve their reading and writing skills. The course is focusing on reading and writing techniques that will allow the students to become advance readers and writers by analyzing various rhetoric modes and compiling critical responses in a form of essay.
In addition we offer the following workshops focusing on specific language skills:
Course Hours: 96
Language & Culture

GRAMMAR

Grammar and Writing for the Workplace I
Designed for students whose primary language is other than English. Focus on comprehending challenging industrial and job-related materials. Emphasis on industry-related vocabulary development and skills acquisition, including determining meaning from context, identifying word forms and variation in meaning, synonyms and antonyms, context clues, connotation and denotation, and fact and opinion. This course enhances student's mastery of the grammar structures and writing skills necessary for workplace communication, and provides dynamic communication in a variety of workplace contexts.
Course Hours: 64

Grammar and Writing for the Workplace II
Designed for students whose primary language is other than English. Exploration of various reference sources and practice suggested proofreading techniques to assist with on-the-job document production. The course is aimed to increase proficiency in the grammar structures and writing skills necessary for workplace communication. Provides dynamic communicative practice in a variety of workplace contexts.
Course Hours: 64

CONVERSATION

Conversation for the Workplace
Addresses essential listening, speaking, reading, writing, and computational skills required by business and industry. Improvement of communication skills as well as study skills related to successful job performance. The focus of this course is improvement of speaking skills of students whose primary language is other than English. The objective of this course is helping students to develop the skills needed for participating in conversations related to high-interest work-related and social situations. This course is recommended for high beginning-intermediate levels.
Course Hours: 40

PRONUNCIATION

Pronunciation for the Workplace I
Mastery of a selected vocabulary of technical/occupational terms, including appropriate pronunciation of terms and use of English language structures required by business and industry for successful on-the-job performance. This course is designed to improve non-native English speakers’ pronunciation skills by increasing control of the English sound system.
Course Hours: 30

Pronunciation for the Workplace II
Mastery of a selected vocabulary of technical/occupational terms, including appropriate pronunciation of terms and use of English language structures required by business and industry for successful on-the-job performance. This course is a continuation of Pronunciation for the Workplace I. Students increase control of the English sound system to minimize miscommunication or misperception due to foreign accent.
Course Hours: 30

LANGUAGES AND CULTURES

Learn a new language and experience a new culture in a fun and interactive environment! We offer language courses and cultural training in the following:
- Arabic • Italian • Chinese
- Japanese • Farsi • Portuguese
- French • Russian • German
- Spanish • Vietnamese • American Sign Language

For more information contact the Lone Star College nearest you.
Business Management - 4
   A+ - 4
   Communication Skills for Managers - 6
   Designing Effective Websites - 8
   Employee Performance Review - 6
   FrontLine Supervision - 6
   HTML II: Website Development (Advanced) - 7, 8
   HTML I, Website Development - 8
   Human Resources Management Exam Prep - 7
   Lead Effective Meetings - 6
   Lean Six Sigma: Black Belt - 5
   Lean Six Sigma: For Managers - 5
   Lean Six Sigma: Green Belt - 5
   Oracle: Administration Workshop II - 4
   Oracle: Introduction to SQL - 4
   Oracle: RAC Administration - 4
   Photoshop I for Web - 7, 8
   Photoshop II for Web - 7
   Problem Solving - 6
   Project Management Exam Preparation - 5
   Project Management Fundamental II - 5
   Project Management Fundamentals I - 4
   SEO: Analytics and Tracking - 8
   Supervision, Introduction - 6
   Supervisors, Legal Issues - 6
   Team Building in the Workplace - 6
   Time Management - 6
   Train the Technical Trainer - 7
   Web Designer 1 - 7
   WordPress I - 8
   WordPress II - 8

Energy & Manufacturing - 9
   Advanced Computer-Aided Manufacturing (CAM) - 10
   AutoCAD, Advanced - 9
   AutoCAD, Intermediate - 9
   AutoCAD, Introduction - 9
   Basic - 10
   Basic Electricity DC/AC Circuits - 13
   Basic Machine Shop - 10
   Basic Machine Shop I - 9
   Basic Welding - 12
   Blueprint Reading for Welders - 12
   Blueprint Reading & Sketching - 9
   Blueprint Reading & Sketching (48 Hours) - 12
   Certified Logistics Associate (CLA) - 12
   Certified Logistics Technician (CLT) - 12
   DC/AC Circuits (10 days) - 12
   Drilling Manager Competency Training - 10
   Electronics - 13
   Forklift Operator Certification - 12
   Fundamentals - 10
   Fundamentals of CNC Machine Controls - 10
   Gas Metal Arc Welding (MIG) Part I - 11
   Gas Metal Arc Welding (MIG) Part II - 11
   Gas Tungsten Arc (TIG) Part I - 11
   Gas Tungsten Arc Welding - 12
   Gas Tungsten Arc Welding (TIG) Part I - 11
   Global Logistics - 13
   Hydraulics - 13
   Industrial Equipment Maintenance - 9, 13
   Industrial Maintenance Technology, Basic - 13
   Instrumentation - 13
   Introduction to Industrial Maintenance - 9
   Liquid Penetrant/Magnetic Particle Testing - 13
   Machine Shop Mathematics - 9, 10
   Manufacturing Metal Processes - 13
   Math - 10
   Motor Controls - 13
   Operation of CNC Machining Centers - 10
   Operation of CNC Turning Centers - 10
   Pneumatics - 13
   Programmable Logic Controllers - 13
   Proper Use Of Hand Tools - 13
   Pumps, Compressors & Mechanical Drivers - 13
   RigPass® - 12
   Shielded Metal Arc Pipe Part I - 11
   Shielded Metal Arc Pipe Part II - 11
   Shielded Metal Arc Welding - 12
   Shielded Metal Arc Welding (SMAW) Part 2 - 11
   Shielded Metal Arc Welding (SMAW) Part I - 11
   SolidWorks I - 9
   SolidWorks II - 9
   Ultrasonic Testing - 13
   Welding Inspection Preparation Part I - 11
   Welding Inspection Preparation Part II - 11
   Welding Inspector - 12
   Welding Metallurgy I - 12
   Welding Technology - 12
   WellCAP® - 11
Language & Culture - 14
Communication for the Workplace IV - 14
Communication for Workplace I - 14
Communication for Workplace II - 14
Communication for Workplace III - 14
Communication VI: Listening and Speaking - 14
Communication VI: Reading and Writing - 14
Communication V:
  Listening and Speaking (96 hours) - 14
Communication V: Reading and Writing - 14
Conversation for the Workplace - 15
Grammar and Writing for the Workplace I - 15
Grammar and Writing for the Workplace II - 15
Pronunciation for the Workplace I - 15
Pronunciation for the Workplace II - 15
Lone Star Corporate College also offers seminars that can help professionals complete licensure or certification requirements.

Watch for promotions throughout the year for specialized seminars and workshops in a variety of subject areas, including energy and manufacturing, business and leadership, technology, legal, safety, and health care. These events range in length from a few hours to a few weeks.

Go to LoneStar.edu/Professional-Seminars for a complete list of upcoming events.

- American Dental Hygienists’ Association
- American Society of Radiologic Technologists
- American Welding Society
- Entrepreneurship
- Languages
- Manufacturing Skills Standards Council
- National Association of Manufacturers
- National Career Readiness Certificate-Work Keys
- National Institute for Metalworking Skills
- State Bar of Texas
- Texas Certification Board of Addiction Professionals
- Texas Commission on Fire Protection
- Texas Department of Aging and Disability Services
- Texas Commission on Law Enforcement Officer Standards & Education
- Texas Department of Insurance
- Texas Nurse Association
- Texas Real Estate Commission
- Texas State Board of Examiners of Marriage and Family Therapists
- Texas State Board of Examiners of Professional Counselors
- Texas State Board of Public Accountancy
- Texas State Board of Social Worker Examiners
- The University of Houston
- The Woodlands Bar Association

For more information contact Michael Burns at 281.290.2925 or Michael.Burns@LoneStar.edu
Annual Lone Star College Women’s Conference!

For more information call: 936.271.6342
Visit: LoneStar.edu/WomensConference

Lone Star College System Office
Lone Star Community Building
5000 Research Forest Drive
The Woodland, Texas 77381

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The Lone Star Energy and Manufacturing Institute is a hub for business with employees currently working or seeking a career in the oil & gas, alternative energy, or mechanized (automated) production industries.

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Why should your business partner with Long Star College?

- Students complete outcome-based, job-related programs
- Certification programs and course offerings for career and technical education, college credit and corporate training.
- Pre-apprenticeship and apprenticeship programs
- Classroom, technical, computer lab, and customized training options
- Facility space for customized and long-term leasing
- National and state skills standards (AWS, NIMS, OSHA, MSSC)
- Member of: International Association of Drilling Contractors, National Association for Manufacturers, Greater Houston Partnership, Houston Energy Collaborative

For more information, call 281.296.7827 or go to LoneStar.edu/EMI
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We’re Glad You Choose Us!

Nationally recognized as a premier community college and leader in higher education innovation, a Lone Star College education is first-rate. And as a division of Lone Star College System, Lone Star Corporate College is here to help your organization and employees succeed.

We invite you to browse through the Open enrollment Courses offerings featured in this booklet, many of which can be customized for your organization’s specific workforce training needs.

For scheduling and pricing information, contact us at 281.296.STAR (7827) or CorporateCollege@LoneStar.edu.