WESTERN TEXAS COLLEGE
FOUNDATION

Western Texas College Foundation INSPIRE Program

Completed applications must be received on or before the due date (October 13, 2023) to the WTC Foundation located in the Library Resource Center (Building 2) OR via email to foundation@wtc.edu. Applicants are encouraged to submit all necessary documents as soon as possible to assure that a last minute delay will not preclude consideration for a program award.

1. APPLICANT INFORMATION

FIRST NAME: Dana LAST NAME: Fahntrapp

DEPARTMENT: Petroleum Technology TITLE: instructor

EMAIL ADDRESS: dfahntrapp@wtc.edu PHONE: (325) 574-7904

2. PROJECT

Project Name: Up to Standards

Fund Amount Requested: $ 5021.00

Amount of funding from other sources for project: $ _____

Have you applied for funding before from the Western Texas College Foundation? ☑ YES ☐ NO

If yes, for what project and how much did you receive? 2018 simtronics (5000), 2019 Illustration (4000), Fall 22 (Portable pumpjack)

Project Abstract (In the space below, please provide a one to two sentence description of project):

These 18 API standards will be used in several course to improve the curriculum. It is important for students to know the minimum & maximum requirements on all types of equipment.

3. PROJECT PROPOSAL

Please prepare a project proposal (no longer than 2 -3 pages) that includes the items listed below. Additional pages may be included to provide supporting documentation if needed.

A. Description
   a. Provide a detailed description of the proposed activity or program
   b. Outline how completion of the proposed activity will benefit students, the department, division or the institution. Is there a community benefit?

c. Detail the implementation plan.
d. Explain how the activity or program will be evaluated.
e. If applicable, list the equipment and materials needed to complete the project.
f. If the amount requested does not fully fund the project, what other sources of funding are available?

B. Expenses
   a. Outline all *proposed* expenses. Be specific. The Western Texas College's policy on reimbursable expenses applies to all actual expenditures, e.g. travel, supplies, etc.
   b. Please inform the Western Texas College Foundation of any other sources of funding available for this proposal.
   c. If awarded, you will need to provide copies of all receipts for approved expenditures.

I understand and agree to the following provisions:

1. Ownership of materials produced as a result of this award will be in accordance with current policies of Western Texas College.
2. In addition to the final report, if applicable, I will provide Western Texas College Foundation with one complete copy of all materials produced.
3. I agree to present my project or report to the Western Texas College Foundation Board, if requested.
4. The expenditure of funds and request for reimbursement must be in the same fiscal year.
5. **Approved funds must be used within same fiscal year as designated by terms of award.**

CERTIFICATION

Applicant Signature:
My signature below certifies that the information provided in this application is accurate and complete to the best of my knowledge. I authorize Western Texas College Foundation to release any information contained in this application to WTC departments.

Signature: Dana Fahrkopf Date: 9/28/2023

Supervisor Signature:

Signature: [signature] Date: 9/28/2023

Administrator Signature:

Signature: Stephanie Duchesneau Date: 10-11-23

Up to Standards

In the oil and gas industry, as well as construction, manufacturing etc, companies have national standards which they must follow to enhance the safety, quality, cost, wastes, and consistence for all their operations. For the over the last 100 years the API, American Petroleum Institute, has developed hundreds of standards, recommended practices, and specifications that have drastically improved the industry and made it much more safe for people and the environment. These 18 standards cover topics such as various valve requirements (gate, globe, ball, etc), pumping units, tank inspection, liquid calibration, centrifugal pumps and more. Each one will add its unique guidelines which will be used to start creating curriculum to introduce the students. This will allow the students to have a better understanding of their equipment when they begin to work in the industry. By being able to identify improper valves, controls, lease site piping, etc, they can save cost, time, and maybe even lives lost by maintaining the proper configuration and boundaries of all the equipment. These standards provide a glossary for easy definition lookup as well as section on max/min variable (such as temperature, pressure, flow, etc). Furthermore, they provide information on proper marking on pieces of equipment, how they should be connected, proper testing procedures, and much much more! Thanks to donations from various companies I have been able to purchase some standards through the Petroleum Technology agency account and do have $500 that could be applied towards this purchase. I hope you will consider this for the Petroleum Technology department as it will help it continue to build the strongest Petroleum Technology program around!!

Inspire Grant Fall 2023

API Standards

The American Petroleum Institute (API) was established to provide standards for the oil and gas industry dating all the way back to 1919. Today, more than 10 million US jobs in the natural gas and oil industry are conducted under API standards. These standards provide operating practices, equipment limitations, safety concerns and more. Rather our students are learning about tanks, separators, drilling rigs, regulations, or any aspect of the oil and gas industry there will be an API standard, recommend practice, or test procedure to provide guidelines for particular task. Not only do these standards provide definitions for unique equipment and abbreviations means but also detailed illustrations of equipment, spacing requirement, worksheets and calculations forms, and testing tables. The following standards will add a great deal of valuable data to continue to build the curriculum for the program. The total for the 16 different API standard (includes printed and digital PDFs) is $5021.00.

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Standards	Description	Price (print and PDF)
STD 600	Steel Gate Valves - Flanged and Butt-welding Ends, Bolted Bonnets	$262.80
STD 12R1	Installation, Operation, Maintenance, Inspection, and Repair of Tanks in Production Section	$306.00
STD 6DX	Standard for Actuators and Mounting Kits for Valves	$304.20
STD 2610	Design, Construction, operation, Maintenance and Inspection of Terminal and Tank Facility	$358.20
API Spec 11E	Pumping Units	$363.60
STD 653	Tank Inspection, Repair, Alteration, and Reconstruction	$474.40
STD 602	Gate, Globe, and Check Valves for sizes DN 100 and smaller for Petroleum use	$271.80
STD 11D2	Progressing Cavity Pump Systems for Artificial Lift- Pumps	$311.40
STD 11D#	Progressing Cavity Pumps Systems for Artificial Lift – Surface drive systems	$212.40
STD 608	Metal Ball valves – Flanged, Threaded, and butt-welding ends	$252.00
STD 660	Shell and Tube Heat exchangers	$372.60
STD 598	Valve Inspection and Testing	$187.20
API Spec 12J	Specification for Oil and Gas Separators	$194.20

RP 4G	Operating, Inspection, Maintenance, and Repair of Drilling and Well Servicing Structures	$246.60
STD 2555	Liquid Calibration for tanks	$194.40
STD 610	Centrifugal Pumps for Petroleum industries	$324.00
STD 609	Butterfly Valves: Double-flanged, Lug- and Wafer-type, and Butt-welding Ends	210.60
STD 623	Steel Globe Valves—Flanged and Butt-welding Ends, Bolted Bonnets	174.60