Hello,

Thank you for contacting us regarding the REC Foundation's Industry Certifications Program. Please see the following information about the program and a request for an invoice to order. After reviewing this information, please call or email with any further questions.

About the REC Foundation Industry Certifications Program

Our industry certifications content is endorsed by many of the world's largest engineering corporations, such as Harris and Northrop Grumman, as well as prestigious organizations like the International Technology Education and Engineering Association (ITEEA). The knowledge and skills students attain from earning these certifications will help them demonstrate entry level skills and help prepare them to make career decisions.

The REC Foundation Industry Certifications were developed by a team of respected engineers, university professors, and high school teachers. The certifications cover everything a student should know after 150 hours in an engineering/robotics program. The subject matter is not based on a single or specific curricula as there are many such offerings available from Carnegie Mellon, Intellitek, Amatrol, DEPCO, PLTW, LJ Create, the free VEX robotics curricula, and several more. Many textbooks also cover a majority of the content. Instructors tend to develop their own curricula, with schools varying widely in facilities, budgets, and in instructors' individual backgrounds. Local needs for the engineering modules teachers want their students to pursue also vary.

Industry Certifications Resources Guide

To assist in meeting the multiple curricula resources available and varying local community and industry needs, we have an overview that covers all of the knowledge and occupational skills content found in each engineering module exam so instructors can easily identify the content they are covering and help them select or develop the appropriate curricula they need.

➡️ [Industry Certifications Resources Guide](#)

This document also contains the "Knowledge and Occupational Skills Content Guide," which has the content hyperlinked per engineering module. It includes of one or more questions in the engineering modules for each point of the content. Instructors can easily see what content necessary to prepare their students with the knowledge and occupational skills that the industry needs. Please review and utilize our suggested course sequence as it applies to your community, student and industry needs, specific facility, and individual instructor expertise. A Q&A is also included, ordering info and instructions, plus an overview of the REC Foundation Industry Certifications.

Info on Engineering Drawings and Cad

The exams cover the fundamentals of engineering drawings, 2D and 3D cad. They are not product specific. Any comprehensive program and curricula will suffice as long as the instructor follows the content in the knowledge and occupational skills that we provide. There are no surprises. If a student understands engineering drawings and the function of these CAD systems, they will do well.

There are a few textbooks teachers have found and shared with us that cover a majority of the content found in exams, with the possible exception of Chemical Engineering. Their students have done exceptionally well on the certifications. A proven preparation technique developed by these teachers for students completing the 150 hours of their course/program is a review focused on specific engineering modules. Students create a PowerPoint that follows the knowledge and occupational skills content, which they then present to the class, and then discuss.

Application

To order your certifications please complete and send the attached Industry Certifications Application to accounting@roboticseducation.org. The voucher codes will be sent to the designated contact provided after all proctor agreements are completed and credit card or purchase order is received. Please plan to have your payment or purchase order received with all required REC Foundation proctor agreements completed and delivered to the REC Foundation, a minimum of five working days prior to your scheduled testing dates to receive the certifications voucher codes and instructions.

Register Your Team

If you do not have a VEX Robotics Team, or Teams at your school yet, why not start today? 2020 is approaching! Let us help you join the world's largest robotics competition program. In April 2018, Guinness World Records again recognized the VEX Robotics World Championship in Louisville, Kentucky, where 1,600 teams from more than 50 countries and all 50 US states gathered as the world's largest robotics competition.

Go to www.roboticseducation.org and check out team grant opportunities, including our Girl Powered program, where our goal is to have 50% of our teams comprised of girls by 2020! There is info on college scholarships, free VEX curricula, and information about this season's games.

To register a team and compete, go to www.robotevents.com. For assistance and questions on starting a team at your school and to find competitions scheduled for your area, click your state on map at robotevents.com to find your Regional Support Manager.

Please let me know if you have any questions related to the certifications themselves, or if you need any assistance related to curriculum, activities or facilities/equipment. See our Suggested Course Sequence and Curriculum Resources.

Thank you,

Matt Conroy M.Ed.

Southeast Regional Support Manager
Industry Certifications Program Manager

Robotics Education & Competition Foundation Industry Certifications
Inspiring Students, one robot at a time.

www.roboticseducation.org/certifications

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