

Information Guide



**Associate in Applied Science Degree
w/Major in Diesel and Heavy Equipment**

Sponsored By

Aggreko LLC & Oklahoma State University Institute of Technology



***INSTITUTE OF
TECHNOLOGY***

Check us out on the web:

www.aggreko-selectech.com

http://www.osuit.edu/academics/diesel_and_heavy/aggreko/

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Aggreko PLC is the global leader in the rental of power, temperature control and oil-free compressed air systems.

Aggreko's Global Mission

To offer specialized energy solutions that are delivered by our high-quality people in such a way that we continually grow our global list of satisfied and long-term customers.

Aggreko's Singular Vision

To be the global leader in providing specialized energy solutions and critical utilities on a temporary basis.

Aggreko's Values

- Market leadership on a global basis
- Delivering premium value that is recognized and sought after by our customers
- Building and maintaining long-term relationships with customers
- Safety at every level of our operation and the protection of the environment
- People living the Aggreko personality of commitment, enthusiasm and initiative
- Constant innovation and the creation of opportunity
- Honesty and integrity

Aggreko's Products and Services

Aggreko has the world's largest fleet of rental generators, backed by the service of over 2,500 people in 31 countries from 121 locations. Our generators range in size from 10kW to 2MW, and can be used for applications ranging from simple standalone power packages up to 100 MW power stations for grids. We also supply load banks and a complete range of accessories. Aggreko generators are purpose-built to our own design in our factory in Scotland to the most exacting engineering and environmental standards.

Aggreko has the world's largest fleet of rental chillers, cooling towers, heaters, dehumidifiers and air handlers. Our temperature control equipment ranges from small portable units for internal use, up to large cooling towers capable of delivering tens of thousands of tons of cooling capacity. Customers use our equipment for both standalone cooling facilities and for process augmentation, when additional cooling capacity can provide improved operational efficiency and throughput in existing plant.

The availability of 100 percent oil-free air is often critical in maintaining the safe operation of equipment and projects. Oil-laden air contaminates pneumatic systems, fouls critical instrumentation orifices and produces unsafe environmental condensate. Our oil-free air products and services provide the compressed air, air-cooling or air-drying that is critical to many industrial processes. Our range of equipment includes compressors from 800 cfm (1360 m³/hr) to 1500 cfm (2550 m³/hr) with diesel or electric drives, as well as desiccant and refrigerant-based dryers.

Industries which frequently use Aggreko solutions include: manufacturing, shipping and ship-building, utilities, events, entertainment and movies, petrochemical, oil & gas exploration and mining, military, disaster relief and service industries, construction, and telecommunications

Aggreko has provided power and temperature control for numerous major events over the past 20 years including the summer and winter Olympics since 1996, the PGA US Open and Ryder Cup, Movie sets including Titanic and Harry Potter, and many other major concerts and road tours.



PROGRAM OBJECTIVE

The Aggreko SelecTech Program is a cooperative two-year college level education program that leads to an Associate in Applied Science degree with a major in Diesel and Heavy Equipment. The School of Diesel and Heavy Equipment at Oklahoma State University Institute of Technology, working in close relationship with Aggreko, administers the program activities. The Program is exclusively by and for Aggreko.

PROGRAM PURPOSE

The purpose of the Aggreko SelecTech program is to upgrade the technical competency and professional level of incoming Aggreko service technicians. It will train students to analytically diagnose, service, and maintain equipment serviced by Aggreko using recommended procedures, special tools, and service information. It will provide course content that will enable successful graduates to advance in position after additional experience, and to understand new systems and components as they are introduced.

PROGRAM STRUCTURE

The two-year, six semester SelecTech program incorporates approximately one-half of the time designated for technical / academic education at Oklahoma State University Institute of Technology. The remaining time is allocated for on-the-job experience at Aggreko Service Centers. Each block of technical education and general education course work is followed by an internship experience that reinforces the technical education. It is essential for the success of the program that the students' education at Oklahoma State University Institute of Technology and internships at Aggreko Service Centers be closely aligned for maximum student learning and retention.

Since considerable time is spent at the Aggreko Service Centers it is a requirement of the program that students have an approved Aggreko sponsorship, which includes the selection and acceptance by an Aggreko Service Center prior to enrollment. The primary responsibility for the Aggreko Service Center is to provide training-related employment for the students during their internships.

All tuition, fees, textbooks, and housing costs are the responsibility of the student. In addition to these costs, the students are required to purchase a prescribed tool set if they do not already have one.

PROGRAM CURRICULUM

Technical training on Aggreko serviced equipment and components include the latest developments in: Preventive and Predictive Maintenance; Diesel Engine Systems; Engine Electronic Systems; Power Generation Systems; Water Chillers; Electric Motors and Motor Controls, Electrical Distribution, Synchronization and Load Sharing, and Diagnostic Procedures. In addition to the technical curriculum, courses will be offered in areas such as Math, Technical Writing, Psychology, U.S. History, U.S. Government, Business and Ethics to provide students with the background necessary for effective communication of ideas and the development of interpersonal skills.



PURPOSE OF THE INTERNSHIP

The Aggreko SelecTech internship allows students to apply, in a real world setting, what they have learned during the previous classroom/lab sessions. In addition, students become familiar with the Aggreko environment, its organizational structure, and the competencies that are expected of a professional service technician.

In addition, the internships allow the student to return home every 8 weeks to work at a local Aggreko Service Center for a competitive wage. Income earned during the 8-week internships may be sufficient to pay for tuition and expenses for the next semester of classes.

STUDENT QUALIFICATIONS

Prospective students must:

1. Be 18 or older by the time of the first internship.
2. Be a High School Graduate, or equivalent.
3. Meet OKLAHOMA STATE UNIVERSITY INSTITUTE OF TECHNOLOGY admission and academic requirements.
4. Be sponsored by Aggreko Service Center.
5. Possess a valid driver's license and maintain an acceptable driving record.
6. Meet the employment requirements for Aggreko.

Tobacco use in University Buildings and Grounds

It is the intent of Oklahoma State University to promote the health, well-being and safety of all students, faculty, staff and visitors. As such, effective July 1, 2010, Oklahoma State University Institute of Technology is designated as a tobacco-free environment. Smoking and the use of all tobacco products are prohibited.

Residential Life will designate a limited number of facilities that will be exempt from this policy. Residential Life officials charged with oversight of the exempt areas of campus where tobacco use is permitted must adopt and post internal policies.

Tobacco use is prohibited in vehicles on grounds owned or under the control of Oklahoma State University.

Admissions Checklist

Regular Admission – applies to students who have never attended college. This also includes students who earned college credit through Cooperative Alliance or Concurrent Enrollment while in high school. GED, Home-Schooled, and students under 21 years of age who never attended college fall in this category.

- Complete and submit an OSU Institute of Technology Application for Admission on line at: <https://admissions.osuit.edu/apply/> or print, complete and mail the form provided at: http://www.osuit.edu/academics/forms/admissions_packet.pdf
- Obtain a Personal Identification Number (PIN) to sign online at www.pin.ed.gov. (If you are a dependent student, a parent will need a PIN as well) Complete the Free Application for Federal Student Aid (FAFSA) available at www.fafsa.ed.gov. **The OSUIT school code is 003172.** Once our office receives your information, we will notify you if additional information is needed and/or send your award letter.
- Submit official high school transcript/GED
- Submit ACT or SAT scores.
- ACCUPLACER testing may be required for placement purposes (all students will be required to take Accuplacer assessment unless they can prove proficient in a subject area with ACT sub scores in math, reading, writing or science scores of 19 or above or have transfer credits. Accuplacer testing is a computer generated assessment administered through the Assessment Center at OSUIT. (918-293-5254)
http://www.osuit.edu/academics/assessment_center.php
Accuplacer sample questions at: <http://www.accuplacer.collegeboard.org>
Additional Accuplacer Skills Reviews at: http://www.osuit.edu/academics/assessment_center.php
- Provide a copy of Immunization records or complete the Immunization Record Form or the Certificate of Exemption. http://www.osuit.edu/campus_community/campus_health/
- Residential Life: Complete room and board contract – Single and Nontraditional Students Room and Board Contract for single students, Family Housing University apartments Contract if you plan to have your family with you at OSUIT. (918-293-4939)
http://www.osuit.edu/campus_community/residential_life/prospective_residents.php
Students making application for campus housing are encouraged to apply early. To reserve space in campus housing students must make a deposit of \$150 (\$500 for family apartments) through the Bursar's office. (918-293-5226)
- Veterans need to visit with the OSUIT Veteran Service Office. (918) 293-4972.or email www.vetservices@okstate.edu
- Complete enrollment through the School of Diesel and Heavy Equipment (918) 293-4710, (918) 293-4730, or (918) 293-3800
- Have your student ID card made. Take your class schedule to the front desk of the Grady W. Clack Center.
- Approximately 48 hours after making application to OSUIT, you will create an O-Key account at <http://okey.okstate.edu> . You will utilize the e-mail address you submitted on your application. Once you have created your O-Key account, you may request a Banner PIN (via e-mail or text), contact your advisor listed in the front of this information guide.



Admission of Transfer Students

View admission criteria at: http://www.osuit.edu/admissions/admissions_requirements.html

IMPORTANT DATES

January, 2017

- 2017-2018 Financial Aid Applications Are Available
- Oklahoma State University Institute of Technology Scholarship Applications Available
- Oklahoma State University Institute of Technology Admission Applications Available

January 31, 2017

- Families Receive W-2 Forms And Begin To Prepare Tax Returns So Financial Aid Applications Can Be Completed.

February 1, 2017

- Students Begin Submitting Oklahoma State University Institute of Technology Admission Applications
- Begin Completing Free Application For Federal Student Aid (FAFSA)
- Students Should Be Making Plans To Take The ACT or SAT Test

May 23, 2017

- Enrollment Begins For Fall 2015 Term. Enrollment Will Continue Through September 3

September 6, 2017

- Move-in Day for Freshman Aggreko SelecTech Students 8:00 AM
- Cowboy Up! New Student Orientation 1:00 PM

September 7, 2017

- First Day of Classes for Freshman Aggreko SelecTech Students

December 16, 2017

- Last Day of on Campus Classes for Freshman Aggreko SelecTech Students

For More Information please call:

Terryl Lindsey, Dean School of Diesel & Heavy Equipment.....	(918) 293-4730
School of Diesel and Heavy Equipment.....	(918) 293-4710
Student Financial Services.....	(918) 293-4684
Admissions Office	(918) 293-4680

STUDENT SELECTION PROCEDURES

1. Students who wish to become a member of the Aggreko SelecTech Program should submit an application as early in the spring semester if possible. This will allow time for processing financial aid packages, identification of preparatory class needs, sponsorship acquisition, etc. The application process includes the following:
 - A) Complete OSUIT Application for Admission.
 - B) Comply with OSUIT Admission Policies.
 - C) Complete the student assessment process. (ACT or SAT tests, and Accuplacer Assessment).
 - D) Interview with Aggreko Program faculty.
 - E) Submit a current official driving record.
 - F) Remove preparatory class needs prior to the start of the program.
2. Students who are completing the Oklahoma State University Institute of Technology Admission process are required to interview with Aggreko. The interview may take place at the corporate office and/or the Aggreko chosen Service Center. Participants' goals should be discussed.
3. **ALL STUDENTS MUST HAVE AN APPROVED AGGREKO SPONSORSHIP BEFORE ENROLLMENT CAN BE COMPLETED.**
4. Should the interview prove successful, the Aggreko Program Coordinator will complete a Sponsorship Agreement and submit it to the Oklahoma State University Institute of Technology Program Chair.

FINANCIAL ASSISTANCE

Students deciding to be part of the Aggreko Program may have a need for financial assistance. Students involved in the program have the opportunity to “earn while they learn” during the internship portion of the program. These earnings may be applied to program costs.

Additional financial aid, through loans or grants, for tuition, books, tools, on-campus room and board, etc., may be available through various financial assistance programs. Students needing financial assistance are encouraged to complete the applications for financial aid as early as possible. Following application submittal, allow an 8-10 week period for processing. Early application assures availability of funds, if qualified, and allows the Financial Aid Office to prepare a realistic financial aid package.

Financial Aid information may be obtained by calling:

- Student Financial Services Office at (918) 293-4684

TOOL COSTS

The required tool set for students in the Aggreko program is purchased by Aggreko, but students in the Aggreko program will have the opportunity to purchase the entire Diesel Tool Set from Snap-On, Mac, Matco, and NAPA sets are approximately ½ retail prices.



2017-2019 - Estimated Cost Per Semester

Pre-class income earning opportunity: Before beginning class work at OSU, prospective students will be required to work at local Aggreko Service center for a 12-week paid summer job.

Fall 2017 – Semester I

(Full semester at OSUIT)

Room	\$1,926.00	Two Bedroom/One Bathroom Suite
Housing Deposit	\$150.00	\$150.00 single unit, \$500.00 family unit (refundable)
Board	\$1,229.00	20 Meal Plan
Tuition & fees	\$2,728.00	\$170.50 */per credit hour (16 credit hours) Note: This is in-state tuition
Books	<u>\$400.00</u>	(approximate per semester)
Aggreko Scholarship	-\$2,000.00	Paid directly to OSU each semester for students in good standing
\$4,433.00		Estimated total

A windows based laptop computer is required for the Aggreko plan of study. Enrolled students can download Microsoft Office at no cost or may purchase the programs on disc for \$15.00.

Note: Tools required for the Aggreko Program are considered an educational expense and should be included in education costs when applying for student financial aid.

Students will be required to furnish their own tools and tool box, but will be eligible for Aggreko financial assistance to offset initial costs.

Estimated Tool Cost: \$2,000.00 - \$3,900.00 (dependent on manufacturer and tool box selected)

Note: Students will be at OSUIT for a full 15 week semester

Spring 2018 – Semester II

(½ semester internship, ½ semester classes)

Room	\$1,159.00	Two Bedroom/One Bathroom Suite
Board	\$779.00	20 Meal Plan
Tuition & fees	\$2,557.50	\$170.50 */per credit hour (15 credit hours) Note: This is in-state tuition
Books	<u>\$400.00</u>	(approximate per semester)
Aggreko Scholarship	-\$1,000.00	Paid directly to OSU each semester for students in good standing
\$3,895.50		Estimated total

Note: Students work at Aggreko Service Centers for a 7.5-week paid internship then complete 7.5-weeks of coursework at OSUIT. (Semester total time = 15 weeks)

Summer 2018 – Semester III (½ semester internship, ½ semester classes)

Room	\$1159.00	Two Bedroom/One Bathroom Suite
Board	\$779.00	20 Meal Plan
Tuition & fees	\$2,557.00	\$170.50 */per credit hour (15 credit hours) Note: This is in-state tuition
Books	\$400.00	(approximate per semester)
Aggreko Scholarship	-\$1,000.00	Paid directly to OSU each semester for students in good standing
\$3,895.50		Estimated total

Note: Students work at Aggreko Service Centers for a 7.5-week paid internship then complete 7.5-weeks of coursework at OSUIT. (Semester total time = 15 weeks)

Fall 2018– Semester IV (Full Semester Internship)

Room	\$0.00	Two Bedroom/One Bathroom Suite
Board	\$0.00	20 Meal Plan
Tuition & fees	\$2,046.00	\$170.50 */per credit hour (12 credit hours) Note: This is in-state tuition
Books	\$0.00	(approximate per semester)
Aggreko Scholarship	-\$0.00	Paid directly to OSU each semester for students in good standing
\$2,046.00		Estimated total

Note: Students work at local Aggreko Service Centers for 15-week paid internship

Spring 2019 – Semester V (½ semester classes, ½ semester internship)

Room	\$1,159.00	Two Bedroom/One Bathroom Suite
Board	\$779.00	20 Meal Plan
Tuition & fees	\$2,557.50	\$170.50 */per credit hour (15 credit hours) Note: This is in-state tuition
Books	\$400.00	(approximate per semester)
Aggreko Scholarship	-\$1,000.00	Paid directly to OSU each semester for students in good standing
\$3,895.50		Estimated total

Note: Students return to OSUIT for 7.5 weeks of coursework then work at an Aggreko Service Center for 7.5-week paid internship. (Semester total time = 15 weeks)

Summer 2019 – Semester VI (*½ semester classes, ½ semester internship*)

Room	\$1,159.00	Two Bedroom/One Bathroom Suite
Board	\$779.00	20 Meal Plan
Tuition & fees	\$2,557.50	\$170.50 */per credit hour* (15 credit hours)
Books	\$400.00	Note: This is in-state tuition (approximate per semester)
Aggreko Scholarship	-\$1,000.00	Paid directly to OSU each semester for students in good standing

\$3,895.50 Estimated total

Note: Students return to OSUIT for 7.5 weeks of coursework then work at an Aggreko Service Center for 7.5-week paid internship. (Semester total time = 15 weeks)

At the completion of coursework in semester VI at OSUIT, the student will graduate with an Associate in Applied Science degree and have the opportunity to work at Aggreko with full employment and benefits.

*Cost of tuition and fees are reviewed on annual basis and may change after Oklahoma State Regents meet in July of each year.

**If zero level courses are taken, a Remedial Supplemental Fee of \$18.50 per credit hour will be charged.

Estimated total for OSUIT tuition & fees, books, room & board, in-state tuition: \$22,061.00.

After applying the Aggreko \$6,000.00 scholarships: \$16,061.00

Estimated Out-of-State total for OSUIT tuition & fees, books, room & board: \$31,053.00 to \$44,693.00 depending on High School or Previous College GPA. See Chart on page 13.

Cost after applying the Aggreko \$6,000.00 scholarships: \$25,053.00 to \$38,693.00 depending on High School or Previous College GPA.

ESTIMATED STUDENT EXPENSES

Please review the following websites for additional information on the costs associated while attending classes at Oklahoma State University at Okmulgee.

http://www.osuit.edu/admissions/tuition_and_fees.html

http://www.osuit.edu/campus_community/residential_life/costs.html

Nonresident Academic Scholarship

Choosing OSU Institute of Technology for your education sets you on the right path toward a promising career. As the University of Jobs, OSUIT is committed to making the transition from classroom to career seamless while at the same time offering an affordable education that will pay you dividends upon graduation.

As Oklahoma's only university of applied technology, OSUIT prepares you for a high return on your investment:



- Nearly 100% career placement rate in technical degree programs
- Low tuition costs, a wide variety of additional scholarship opportunities and financial aid available
- Paid internships that help pay for school as you go and often lead to full-time employment

In an effort to keep out-of-state costs low, OSUIT's Nonresident Academic Scholarship helps offset your educational expenses, making it the most affordable option in the region.

OSUIT Scholarship Award by Credit Hour

Nonresident Incoming GPA	Total Non-Res Tuition & Mandatory Fees / credit hour	Scholarship per credit hour	Student portion per credit hour
3.50 to 4.00	\$359.50 -	\$155.00 =	\$204.50
3.00 to 3.49	\$359.50 -	\$145.00 =	\$214.50
2.50 to 2.99	\$359.50 -	\$135.00 =	\$224.50
2.00 to 2.49	\$359.50 -	\$125.00 =	\$234.50
1.99 or less	\$359.50 -	\$0.00 =	\$359.50

Calculations based on FY15 Undergraduate Tuition & Mandatory Fees. Number of scholarships awarded determined by availability of funding. Effective January 2014.

Scholarship is available to full-time OSUIT students and is renewable for a maximum of 6 consecutive terms. Credit hour award will be recalculated according to student's OSUIT GPA during the fourth term, potentially increasing scholarship funding and is contingent upon available funding.

Example: Incoming student Pistol Pete's GPA was 2.4, resulting in a scholarship of \$125 per credit hour. At the end of the third term, Pete's GPA is 3.2, resulting in a scholarship increase to \$145 per credit hour.

Contact OSUIT Prospective Student Services at information@okstate.edu, or call 1-800-722-4471 for full scholarship details.

The table below shows the additional non-resident costs and the estimated total program costs, assuming the student maintains the same GPA as the student entered OSUIT with.

	Tuition & Fees	Non-resident cost – Okla. resident cost	Estimated Total Cost
Oklahoma Resident tuition and fees	\$15004.00		\$28,061.00*
Non Resident with incoming GPA 3.50 to 4.00	\$17,996.00	\$2,992.00	\$31,053.00*
Non Resident with incoming GPA 3.00 to 3.49	\$18,876.00	\$3,872.00	\$31,933.00*
Non Resident with incoming GPA 2.50 to 2.99	\$19,756.00	\$4,752.00	\$32,813.00*
Non Resident with incoming GPA 2.00 to 2.49	\$20,636.00	\$5,632.00	\$33,693.00*
Non Resident with incoming GPA below 1.99	\$31,636.00	\$16,632.00	\$44,693.00*

***Does not reflect Aggreko \$6,000.00 Scholarship.**



**INSTITUTE OF
TECHNOLOGY**

**School of Diesel and
Heavy Equipment**

1801 East 4th Street
Okmulgee, OK 74447-3901
Office (918)293-4710
Fax (918) 293-4658
www.osuit.edu



Diesel and Heavy Equipment

Degree Awarded

Associate in Applied Science

General Requirements:

88 Credit hours

2.0 Minimum Overall GPA

**Typical Schedule for
Diesel and Heavy Equipment
Plan of Study
DHEA-176**

1st Semester – 16 Credit Hours

DHEA	1113	Maintenance Fundamentals
DHEA	1213	DC/AC Electrical Fundamentals
DHEA	1123	Diesel Engine I – Maintenance
DHEA	2413	Aggreko Motor Starting and Motor Control
CS	1013	Computer Literacy & Applications
GTGE	1111	College Cornerstone

2nd Semester – 15 Credit Hours

DHEA	1133	Internship 1
DHEA	2423	Electrical Distribution
DHEA	1313	Generator Systems I–Operation
PSYC	1113	Intro to Psychology
ENGL	1113	Freshman Composition I

3rd Semester – 15 Credit Hours

DHEA	1233	Internship 2
DHEA	1323	Aggreko Basic Refrigeration
DHEA	2613	Generator Systems II – Controls
ENGL	1213	Freshman Composition II
MATH	2003	Business Math

4th Semester – 12 Credit Hours

DHEA	2412	Internship 3
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5th Semester – 15 Credit Hours

DHEA	2523	Diesel Engine II – Troubleshooting & Repair
DHEA	1343	SEA Units and New Gen II
HIST	1493	U.S. History since 1865
SPCH	1113	Introduction to Speech
DHEA	2433	Internship 4

6th Semester – 15 Credit Hours

DHEA	2543	Oil Free Air Compressors
DHEA	2623	Aggreko Capstone
BADM	1113	Introduction to Business
POLS	1113	U. S. Government
DHEA	2533	Internship 5

DHEA 1113 Maintenance Fundamentals

This course introduces skills and knowledge required by all service technicians including OSHA, EPA, hazardous materials, and waste regulations, precision measurement, tools, fasteners, pipe, pipe fittings, valves, tubing, tubing fittings, as well as copper tube flaring, swaging, cutting and brazing. Students are introduced to product identification and service literature usage. This is the career cornerstone course which will include a review of the Oklahoma State University Institute of Technology Handbook, a technical pre-test, and career exploration with Aggreko. Students will review the history of Aggreko and the service provided by Aggreko. Theory/Lab.

DHEA 1123 Diesel Engine I – Fundamentals and Maintenance

This course is an introduction to the theory and operation of the four stroke diesel engine along with standard maintenance procedures for the Aggreko diesel generator package. It includes component identification and function, the four engine systems, electronic governor principles, and safety issues. This course emphasizes the use of the Aggreko Generator Quality Checklist and associated maintenance procedures. Engine servicing and preventative maintenance are examined. Theory/Lab

GTGE 1111 College Cornerstone

College Cornerstone serves as the foundation for students to build upon during their time at Oklahoma State University Institute of Technology and is delivered through one's home School. Students must document, defend, or demonstrate the ability to perform tasks required to meet the objectives of each unit including e-mail proficiency, library research, resource tools, learning styles, study strategies, career exploration, and time and money management. Theory.

DHEA 1213 DC/AC Electrical Fundamentals

This course covers safety and the basic principles of AC/DC electrical circuits. Subjects to be included: operating characteristics of the circuits, various components, electrical laws, series circuits, parallel circuits, series-parallel circuits, magnetism, impedance, and resonance. Students will locate and identify components from schematics. The operation of electrical components such as switches, relays, contactors, starter boxes, transformers, relays, timers, capacitors and motor starting relays will also be examined. Theory/Lab.

DHEA 1313 Generator Systems I – Theory and Operation

This course is a study of the fundamental theory, operation and application of the electrical generator. The course introduces AC generator principles, automatic voltage regulation, generator control systems, and generator wiring configurations. The focus is on the Aggreko canopy size generator. (30 – 300 kW). Students will study start up procedures, total system function, maintenance and repair

DHEA 1323 Aggreko Basic Refrigeration

This course covers the use of industry specialized tools as well as copper tube flaring, swaging, cutting and brazing. It includes the theory of the compression refrigeration cycle, components which make up a refrigeration system, the operation and analysis of basic refrigeration systems including evacuation, charging, recovery, control adjustments and efficiency checks. Theory/Lab. Prerequisite: DHEA 1213

DHEA 1343 SEA Units and New Generation II Air-conditioners

This course will introduce the student to the two basic air conditioners used in the Aggreko fleet. The Special Events Air-conditioner (SEA) and the New Generation II air-conditioner. Topics include: installation parameters and procedures, applications and limitations for each, control schemes, wiring schematics, controller programming, refrigerant circuits, thermostatic expansion valve (TXV) operation, and special applications. The 15 and 30-ton SEA units will be covered along with the 35 and 70-ton New Generation II units. Safety, refrigerant handling procedures, and special considerations for R-410a will be topics of discussion in conjunction with hands-on exercises. Theory/Lab. Prerequisite: DHEA1323

DHEA 2413 Aggreko Motor Starting and Motor Controls

This course introduces the fundamental concepts of electrical motors and associated electrical controls. Topics include: ladder diagrams, schematic diagrams, contactors, motor starters, control relays, timing relays, pilot control devices, AC/DC motors and related control devices. Upon completion, students should be able to properly select, install and troubleshoot motors and associated control systems. Theory/Lab. Prerequisite: DHEA1213

DHEA 2423 Electrical Distribution

This course covers the various systems that a customer might request including single-phase 120/240 volt, and 3-phase systems that include 240 volt delta, 120/208 volt, and 277/480 volt. It covers the principles behind selecting an electrical distribution system including the advantages, disadvantages and limitations of each. The following topics will be covered: distribution equipment, system operation, planning, company policy, safety regulations, correct phasing, load capabilities, protection, and installation. Theory/Lab. Prerequisite: DHEA1213, DHEA 1313



DHEA 2543 Oil Free Air Compressors – Theory and Operation

This course is an introduction to the Aggreko air compressor, refrigerated air dryer, and desiccant air dryer fleet. It is designed to enhance the student's ability to operate, troubleshoot, maintain and repair an oil free air compressor, desiccant air dryer, and refrigerated air dryer. Other topics covered include: compressed air safety, principles of compressed air, rotary screw compressor operation, electrical and pneumatic controls, installation and applications. Theory/Lab, Prerequisite: DHEA 1124, DHEA 1213, DHEA 2523

DHEA 2523 Diesel Engine II – Troubleshooting & Repair/Replacement

This course covers the typical problems associated with diesel engines and how to identify the probable causes. Safety and the use of technical manuals are stressed. This course emphasizes repair and replacement procedures for diesel engines, parts evaluation, reusability and failure analysis. Trouble shooting scenarios, repair, and/or replacement of engine components based on actual Aggreko service calls and historic data. Theory/Lab, Prerequisite: DHEA 1124, DHEA 1213.

DHEA 2613 Generator Systems II – Advanced Generator Controls

This course will familiarize the student with advanced generator controls that are currently being used in the Aggreko fleet. Both the Deif (GEMPAC) and Deep Sea Electronics (5510) controllers will be discussed in depth. Compatible computer software will also be covered in detail. Each student will have the opportunity to learn to navigate through the controllers programs using the touch pad and applicable software. Other covered topics will include uploading the newest versions of software, completing retrofits, and setting up configurations for specific operations such as paralleling and base load. Theory/Lab, Prerequisite: DHEA 1313, DHEA 2423

DHEA 2623 Aggreko Capstone

The Aggreko Capstone course will involve team projects to examine the installation, operation, service and repair of Aggreko mobile units. It will also cover controls, wiring, schematic reading, system diagnosis and safety. Special emphasis will be placed on integration of all the technical and general education classes. The course will be arranged so the student will have a very good understanding of the Aggreko business model. The course will include exit assessments and other graduation requirements. Theory/Lab.

DHEA 1133 Internship 1

An internship is a cooperative agreement between industry and education which allows students to utilize and refine skills previously learned in their educational process. All work is to be performed in accordance with industry standards and guidelines and will be supervised by industry and school representatives. Lab. Prerequisites: Student must have a valid driver's license, be in good academic standing and have successfully completed all required core courses.

DHEA 1233 Internship 2

An internship is a cooperative agreement between industry and education which allows students to utilize and refine skills previously learned in their educational process. All work is to be performed in accordance with industry standards and guidelines and will be supervised by industry and school representatives. Lab. Prerequisites: Student must have a valid driver's license, be in good academic standing and have successfully completed all required core courses.

DHEA 2412 Internship 3 (12 Credit Hours)

An internship is a cooperative agreement between industry and education which allows students to utilize and refine skills previously learned in their educational process. All work is to be performed in accordance with industry standards and guidelines and will be supervised by industry and school representatives. Lab. Prerequisites: Student must have a valid driver's license, be in good academic standing and have successfully completed all required core courses.

DHEA 2433 Internship 4

An internship is a cooperative agreement between industry and education which allows students to utilize and refine skills previously learned in their educational process. All work is to be performed in accordance with industry standards and guidelines and will be supervised by industry and school representatives. Lab. Prerequisites: Student must have a valid driver's license, be in good academic standing and have successfully completed all required core courses.

DHEA 2533 Internship 5

An internship is a cooperative agreement between industry and education which allows students to utilize and refine skills previously learned in their educational process. All work is to be performed in accordance with industry standards and guidelines and will be supervised by industry and school representatives. Lab. Prerequisites: Student must have a valid driver's license, be in good academic standing and have successfully completed all required core courses.



FINANCIAL AID WEB SITES

FINANCIAL AID SEARCHES: Check out these Scholarship Resources on the Web

www.fastweb.com/

www.freschinfo.com

www.collegefunds.net/

www.wiredscholar.com

www.mach25.com

www.scholarships.com/

Mapping Your Future – www.mapping-your-future.org

College Board Scholarship Search – http://apps.collegeboard.com/cbsearch_ss/welcome.jsp

GRANTS AND SCHOLARSHIPS:

FAFSA Express – www.FAFSA.ed.gov

Missouri Higher Education Loan Association (MOHELA) – www.mohela.com

Oklahoma Guaranteed Student Loan Program (OGSLP) – www.ogsip.org

Oklahoma State Regents for Higher Education – www.okhighered.org

Oklahoma Tuition Aid Grant (OTAG) – www.otag.org

GENERAL INFORMATION:

National Association of Student Financial Aid Administrators – www.nasfaa.org

National Council of Higher Education Loan Programs – www.nchelp.org

Oklahoma State Department of Vo-Tech – <http://www.okcareertech.org/>

Project EASI – www.easi.ed.gov

The Financial Aid Information Page – www.finaid.org

US Department of Education – www.ed.gov