

Information Guide

KOMATSU®

Komatsu ACT Program

Associate in Applied Science Degree
With Major in Diesel and Heavy Equipment Technology

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

KOMATSU DISTRIBUTOR LOCATER

http://www.equipmentcentral.com/north_america/locator/?ecweb=KA_Locator

Sponsored By

Oklahoma State University Institute of Technology
Komatsu America Corp
Komatsu Distributors



***INSTITUTE OF
TECHNOLOGY***

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Oklahoma State University Institute of Technology
Komatsu ACT Program

<http://www.osuit.edu/hevi/komatsu>

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KOMATSU DISTRIBUTOR LOCATOR

http://www.komatsuamerica.com/index.cfm?resource_id=122

Komatsu ACT Program

PROGRAM OBJECTIVE

The Komatsu ACT (Advanced Career Training) Program is a cooperative two-year college level Student Technician education program which leads to an Associate in Applied Science degree with a major in Komatsu Service Technology. The Heavy Equipment and Vehicle Institute at OSU Institute of Technology, working in close relationship with Komatsu America Corp., administer the program activities. The Komatsu ACT Program is exclusively by and for Komatsu Distributors.

PROGRAM PURPOSE

The purpose of this Distributor program is to upgrade the technical competency and professional level of incoming Komatsu service technicians. It will train Komatsu students to analytically diagnose, service and maintain Komatsu products 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 program incorporates approximately one-half of the time designated for technical / academic education at OSU Institute of Technology. The remaining time is allocated for on-the-job experience at sponsoring Komatsu distributors. Each block of technical education and general education course work is followed by an immediate distributor work experience time period that reinforces the technical education. These time periods are approximately 7 ½ weeks in length each. It is essential for the success of the program that the students' education at OSU Institute of Technology and Komatsu distributor work experiences be closely aligned for maximum student learning and retention.

Since considerable time is spent at the distributor, it is a requirement of the program that students have a sponsoring Komatsu distributor prior to enrollment. The primary responsibility for the distributor is to provide training-related employment for the students during their distributor learning / work experience internship.

All tuition, fees, textbooks, travel expenses 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. Distributors may make other expense sharing agreements with students, at the discretion of the distributor.

PROGRAM CURRICULUM

Technical training on Komatsu equipment components includes the latest developments in: Engines; Hydraulics; Power Trains; Electrical and Electronic Systems; Test Procedures and Diagnostic Tools.

In addition to the technical curriculum, courses will be offered in areas such as Math, Composition/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 on interpersonal skills.

PURPOSE OF THE INTERNSHIP

The 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 distributor environment, its organizational structure, and the competencies that are expected of a professional service technician.

STUDENT QUALIFICATIONS

Prospective students must be:

1. 18 years of age (or older) by the time of the first internship.
2. High School Graduate, or GED
3. Able to meet OSU Institute of Technology and Komatsu admission and academic requirements.
4. Sponsored by a Komatsu Distributor.
5. Possess a valid driver's license and maintain an employable driving record.
6. Willing to take a drug test if requested by Distributor sponsor.
(NOTE: for many distributors this is a requirement for employment)
7. Sincere about becoming the best service technician he/she can be.

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 Oklahoma State University Institute of Technology Application for Admission 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. **Our 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.
- Complete and submit Scholarship Applications before March 1 <http://www.osuit.edu/admissions/scholarships>
- Submit official high school transcript/GED
- Submit ACT or SAT scores.
- COMPASS testing if math, reading, writing or science scores on the ACT are below a 19. Compass testing is a computer generated assessment administered through the Assessment Center at Oklahoma State University Institute of Technology 918-293-5248: http://www.osuit.edu/academics/assessment_center.php
Compass sample questions at: <http://www.act.org/compass/sample/>
Additional Compass Skills Reviews at: http://www.osuit.edu/academics/assessment_center.php
- Remove preparatory class needs prior to the start of the fall semester.
- Complete the Immunization Record Form or the Certificate of Exemption http://www.osuit.edu/campus_community/campus_health/
- 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. 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).
- Pay \$50.00 enrollment Deposit at Bursars Office (918) 293-5226
- Complete enrollment through the HEVi Department (918) 293-4710 or (918) 293-4724

Transfer Student -Student with 24 or more college credits

Documents required:

- Official college transcript(s) from every college attended
- COMPASS testing (compass test may be waived with applicable transfer classes)
- Immunization Records/Waiver
- Complete room and board contract, pay deposit.
- Pay \$50.00 enrollment deposit

Student with less than 24 college credits:

- Official college transcript(s) from every college attended
- Official high school transcript/GED
- ACT scores
- COMPASS testing (may be waived with applicable transfer classes OR if ACT scores in math, reading, writing and science are 19 or above)
- Immunization Records/Waiver
- Complete room and board contract , pay deposit.
- Pay \$50.00 enrollment deposit

Important Dates

January 2012

- New Financial Aid Applications Are Available
- OSU Institute of Technology Scholarship Applications Available
- OSU Institute of Technology Admission Applications Available

January 31, 2012

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

February 1, 2012

- Students Begin Submitting OSU 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 1, 2012

- Enrollment Begins For Fall 2012 Term. Enrollment Will Continue Through September 6.

October 22, 2012

- Move-in Day For Freshman Komatsu Students

October 23, 2012

- First Day of Classes For Freshman Komatsu Students

December 14, 2012

- Final Day of Fall 2011 Class work for Freshman Komatsu Students.

For More Information please call:

| | |
|--|----------------|
| Roy Achemire..... | (918) 293-4724 |
| Heavy Equipment & Vehicle Institute..... | (918) 293-4710 |
| Student Financial Services..... | (918) 293-5290 |
| Admissions Office..... | (918) 293-4680 |

RESPONSIBILITIES OF PARTICIPANTS

OSU Institute of Technology

1. Provide faculty dedicated solely to the Komatsu ACT Program.
2. Provide necessary time to initially train and update the faculty.
3. Provide facility dedicated solely to the Komatsu ACT Program; classrooms, labs, etc.
4. Appoint a Komatsu ACT Program Coordinator.
5. Provide advisement for Komatsu ACT Program students.
6. Maintain up-to-date tools and equipment, including basic tool list.
7. Grant the Associate of Applied Science degree in Komatsu Service Technology to graduates.
8. Inform sponsoring distributors of student progress.
9. Assist distributors with student selection and recruitment.
10. Conduct student visitations during internships.
11. Establish a Komatsu Advisory Committee for curriculum and content.
12. Schedule Advisory Committee meetings.
13. In general, oversee student recruitment and selection process.

Komatsu America Corp.

1. Encourage distributor cooperation and support.
2. Assist in locating and selecting Komatsu faculty.
3. Provide Komatsu training for faculty.
4. Furnish OSU Institute of Technology with Komatsu equipment and components.
5. Provide OSU Institute of Technology with essential training materials, including audio visuals, student booklets, instructor guides, shop manuals, necessary mock-ups, simulators, software, etc.
6. Monitor curriculum to assure success.
7. Provide \$300.00 per semester scholarship to distributor-selected students.
8. Provide \$600.00 tool allowance to OSU for each distributor-sponsored student.

Komatsu Distributors

1. Agree to act as a sponsoring distributor.
2. Appoint an in-house distributor coordinator.
3. Recruit, interview and select prospective student(s)
4. Provide distributor coordinated internship experience in accordance with the program schedule.
5. Provide related work/learning experiences that supplement the student's most recent instruction.
6. Agree to pay the student during periods of internship.
7. Provide work uniforms for student consistent with distributor policy both while at school and at the distributor.
8. Provide any other benefits in a manner consistent with other student employees sponsored by the same distributor.
9. Assist in obtaining equipment and training aids.
10. Participate in the Advisory Committee meetings.
11. Perform student evaluation during internship.

STUDENT

1. Obtain and maintain a Komatsu Distributor Sponsor throughout the program.
2. Provide sponsoring Komatsu Distributor with responsible and productive work effort.
3. Participate in all learning activities at scheduled times.
4. Maintain academic standards and adhere to academic policies (minimum 2.0 GPA) according to OSU Institute of Technology policy.
5. Maintain distributor attendance standards.
6. Be responsible for program cost: tuition, fees, books, tools, housing, etc.
7. Wear work uniforms, safety glasses and recommended personal safety equipment during campus class/labs and distributor internship experiences.

STUDENT SELECTION PROCEDURES

1. Students who wish to become a member of the Komatsu ACT Program should make application early in the spring semester (January – March) 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 OSU Institute of Technology Application for Admission.
 - B) Comply with OSU Institute of Technology Admission Policies.
 - C) Complete the student assessment process. (May include both the Compass and Career Profile testing).
 - D) Complete preparatory class needs prior to the start of the program.
 - F) Have established housing if the student is out-of-state.
2. Students who successfully complete the Admission process are eligible to interview with the Komatsu Distributor of their choice. Check with the Komatsu faculty for a list of Komatsu Distributors that have agreed to participate in the program. The interview should take place at the dealership and participant's goals should be discussed.
3. ALL STUDENTS MUST HAVE A DISTRIBUTOR SPONSOR BEFORE ENROLLMENT CAN BE COMPLETED.

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.

Students will have access to cessation assistance.

FINANCIAL ASSISTANCE

Students deciding to be part of the Komatsu ACT Program may have a need for financial assistance. Students involved in the program have the opportunity to earn while they learn during the distributor 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 the Student Financial Services Office at (800) 722-4471.

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

ESTIMATED Cost per Semester

http://www.osuit.edu/academics/new_tuition.html

2012-2014 - Estimated Cost Per Semester

\$1500.00 - \$3200.00 Required Tools (dependant on manufacturer and tool box selected)

Fall 2012 - Semester 1

| | |
|------------------|---|
| \$1,092.00 | Two Bedroom/One Bathroom Suite |
| \$150.00 | \$150.00 single unit, \$500.00 family unit (refundable) |
| \$648.00 | 20 Meal Plan |
| \$1620.00 | Tuition & fees \$135.00/ch (12 credit hours) This is in-state tuition or with nonresident tuition waiver applied |
| \$350.00 | Books (approximate per semester) |
| \$50.00 | Enrollment deposit |
| \$3910.00 | Estimated total semester educational expenses |

Spring 2013 - Semester 2

| | |
|-------------------|---|
| \$1,092.00 | Two Bedroom/One Bathroom Suite |
| \$648.00 | 20 Meal Plan |
| \$2,025.00 | Tuition & fees \$135.00/ch (15 credit hours) This is in-state tuition or with nonresident tuition waiver applied |
| \$350.00 | Books (approximate per semester) |
| \$4,115.00 | Estimated total semester educational expenses |

Summer 2013 - Semester 3

| | |
|-------------------|---|
| \$1,092.00 | Two Bedroom/One Bathroom Suite |
| \$648.00 | 20 Meal Plan |
| \$2,025.00 | Tuition & fees \$135.00/ch (15 credit hours) This is in-state tuition or with nonresident tuition waiver applied |
| \$350.00 | Books (approximate per semester) |
| \$4,115.00 | Estimated total semester educational expenses |

Fall 2013 - Semester 4

| | |
|-------------------|---|
| \$1,092.00 | Two Bedroom/One Bathroom Suite |
| \$648.00 | 20 Meal Plan |
| \$2,025.00 | Tuition & fees \$135.00/ch (15 credit hours) This is in-state tuition or with nonresident tuition waiver applied |
| \$350.00 | Books (approximate per semester) |
| \$4,115.00 | Estimated total semester educational expenses |

Spring 2014 - Semester 5

| | |
|-------------------|---|
| \$1,092.00 | Two Bedroom/One Bathroom Suite |
| \$648.00 | 20 Meal Plan |
| \$2,025.00 | Tuition & fees \$135.00/ch (15 credit hours) This is in-state tuition or with nonresident tuition waiver applied |
| \$350.00 | Books (approximate per semester) |
| \$3,888.50 | Estimated total semester educational expenses |

Summer 2014 - Semester 6

| | |
|-------------------|---|
| \$1,092.00 | Two Bedroom/One Bathroom Suite |
| \$648.00 | 20 Meal Plan |
| \$2025.00 | Tuition & fees \$135.00/ch (15 credit hours) This is in-state tuition or with nonresident tuition waiver applied |
| \$350.00 | Books (approximate per semester) |
| \$3,710.00 | Estimated total semester educational expenses |

\$24,485.00 Estimated total educational expenses

Cost of tuition and fees may change after Oklahoma State Regents meet in July.

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

Tool costs for Snap-On, Mac, and Matco sets are approximately ½ retail price with school discount. The KOMATSU advisory committee and faculty establish the required tool set for students in the KOMATSU Program. Faculty members suggest students spend time talking to veteran technicians prior to tool purchase.

NOTE: Costs are estimated and subject to change.

Nonresident Tuition Waiver

http://www.osuit.edu/forms/2010/nonresident_tuition_waiver.pdf

A full nonresident tuition waiver includes only a waiver of the nonresident portion of the semester credit hour enrollment fees, and the remaining fees, as paid by Oklahoma residents still apply. The criteria for non-resident tuition waiver of out of state students enrolling at OSU Institute of Technology:

To qualify for the Nonresident Tuition Waiver the student must be enrolled full-time (12 hours) in a degree-seeking AS, AAS or BT program. Additionally, students are required to live on campus to be *awarded and continue to receive* the non-resident tuition waiver unless **at the time of application**:

- Student is 21 years of age or older
- Student is married
- Student has legal custody of a child

FIRST TIME FRESHMAN OR TRANSFER WITH LESS THAN 24 CREDIT HOURS (must meet at least one of the following criteria):

- 2.0 cumulative high school GPA
- 18 ACT composite or equivalent 860 on SAT
- Proficiency in at least 2 of 3 curricular areas (English - 81, Math - 46, Reading - 46) on COMPASS placement testing or demonstrated by college credit

TRANSFER WITH 24 OR MORE CREDIT HOURS:

- 2.0 cumulative college GPA

Continuing students will automatically receive the NRTW by meeting the following requirements:

- 2.0 cumulative graduation/retention GPA
- 75% completion rate of enrolled classes as of the end of the add/drop period

Continuing students who do not meet these standards each term will be placed on probation for one semester. Should the awarded students not meet the above requirements for a second term, the student will no longer be eligible for the Non-Resident Tuition Waiver for the following term. Awarded students will remain on probation until the cumulative graduation/retention GPA reaches the above standards.

Effective date: February 2010

KOMATSU DISTRIBUTOR INFORMATION

How will the program benefit your Business?

This program is an answer to the skilled technician shortage. It responds to the needs of Komatsu distributors for highly qualified, motivated and skilled technicians. Technicians who are...

1. Trained on all current Komatsu products.
2. Trained in the latest diagnostic and servicing procedures.
3. Trained to "do it right the first time!"
4. Trained with a positive attitude about their job.
5. Productive before they complete their training.
6. Educated in the important areas of communication, reading, mathematics, business management, business ethics, etc.
7. Trained in safe work habits and practices.

This program is a planned distributor personnel development program. It combines the resources of Komatsu America Corp. with the expertise of the faculty at OSU Institute of Technology and Komatsu Distributors to build a true educational partnership! This program is designed to focus on the success of your potential employee, the Komatsu ACT student.

It is cost-effective! The best news is that there is no required up-front cost for the dealership. Your investment is minimal. Here's why:

1. You select and supervise the student as a productive employee of your business. The cooperative educational work experience occurs in your location, under your supervision and direction.
2. The student is responsible for the cost of tuition, fees, books and the required basic tool set.
3. You and the student agree on the wage rate during the internship experience. You are not required to pay them while they are attending classes at OSU Institute of Technology.
4. You may elect to provide incentives or financial help to your student, at your option.

How are Komatsu ACT students recruited?

OSU Institute of Technology will assist in recruiting students. It is the distributors responsibility, however, to select the "right" student. You should actively recruit a student from your area. Some good sources are:

- | | | |
|----------------------|--------------------------------|-----------------|
| 1. Current employees | 2. Employees friends, families | 3. Customers |
| 4. High Schools | 5. Vo-Tech Schools | 6. FFA Chapters |
| 7. Skills USA | 8. High School Coaches | |

Once you have identified a student you believe will be a good applicant, bring the student to visit the campus at OSU Institute of Technology to tour the facilities, interview with the faculty, complete assessment and career profiling. Upon completion and with further discussion, a final decision should be made regarding sponsorship. It is also a good idea to offer the student some type of summer employment. This will allow both of you to verify that you have made the right decision, before the program begins.

What is the wage rate for Komatsu ACT Students?

The distributor determines the wage rate. The rate of pay is however, negotiable and is between you and the student. Komatsu ACT students base their value to the distributor on two important factors: the quality of training that is provided while on internship and prevailing wages. Successful people are motivated by a variety of things, but most expect to be rewarded in the form of an increase in salary. This is especially true when they are performing jobs well and continue to improve their skills and abilities. Komatsu ACT students are no different. A pay plan that rewards them for maintaining acceptable grades, doing good work, and improving productivity and efficiency is essential.

Komatsu ACT students understand that they are trainees, and do not expect to be paid a journeyman wage during the training program. However, many of the best students have bills to pay, and families to support. Please consider a progressing pay plan or an incentive schedule.



INSTITUTE OF TECHNOLOGY

HEVi

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KOMATSU
Komatsu America International Company

ACT

ADVANCED CAREER TRAINING

Program
Diesel and Heavy Equipment Technology

Degree Awarded
Associate in Applied Science

General Requirements
87 Credit hours
2.0 Minimum Overall Grade Point Average

Typical Schedule for Komatsu ACT

Plan of Study
DHEK- 126

Bolded General Education courses will be scheduled for half semester classes, others will be accepted as transfer credit.

1st Semester - 12 Credit Hours

| | | |
|-------------|-------------|---|
| DHEK | 1104 | Komatsu General Basics |
| DHEK | 1124 | Komatsu Parts and Service Publications |
| CS | 1013 | Computer Literacy & Applications |
| GTGE | 1111 | College Cornerstone |

| | | |
|------|------|------------|
| DHEK | 1143 | Internship |
|------|------|------------|

2nd Semester - 15 Credit Hours

| | | |
|-------------|-------------|--------------------------------|
| DHEK | 1216 | Komatsu Engines & Fuel Systems |
| ENGL | 1033 | Technical Writing I |
| MATH | 2003 | Business Mathematics |

| | | |
|------|------|------------|
| DHEK | 1243 | Internship |
|------|------|------------|

3rd Semester - 15 Credit Hours

| | | |
|-------------|-------------|----------------------------------|
| DHEK | 1323 | Komatsu Basic Hydraulics |
| DHEK | 1333 | Komatsu Basic Electrical Systems |
| PSYC | 1113 | Intro to Psychology |
| ENGL | 2033 | Technical Writing II |

| | | |
|------|------|------------|
| DHEK | 1343 | Internship |
|------|------|------------|

4th Semester - 15 Credit Hours

| | | |
|-------------|-------------|-------------------------|
| DHEK | 2416 | Komatsu Wheel Loaders |
| PHIL | 1213 | Ethics |
| POLS | 1113 | U. S. Government |

| | | |
|------|------|------------|
| DHEK | 2443 | Internship |
|------|------|------------|

5th Semester - 15 Credit Hours

| | | |
|-------------|-------------|-------------------------------|
| DHEK | 2516 | Komatsu Hydraulic Excavator |
| SPCH | 1113 | Introduction to Speech |
| GTCT | 1183 | Welding |

| | | |
|------|------|------------|
| DHEK | 2543 | Internship |
|------|------|------------|

6th Semester - 15 Credit Hours

| | | |
|-------------|-------------|----------------------------------|
| DHEK | 2626 | Komatsu Capstone |
| DHEK | 2653 | Vehicle Air Conditioning Systems |
| HIST | 1493 | U.S. History Since 1865 |

Komatsu Required Tool List

1/4" drive 6 point standard and deep chrome socket set
6 point standard 3/16" - 9/16"
6 point deep 3/16" - 9/16"
3" extension, 1/4" ratchet, socket storage

1/4" drive 6 point standard metric chrome socket set 4mm - 13mm

3/8" drive 12 point standard chrome socket set 1/4" - 7/8"

3/8" drive 6 point chrome socket set
6 point deep 3/8" - 7/8"
6 point flex 3/8" - 3/4"
Spark plug 13/16", 5/8"
Universal joint, 3", 6" & 10" extension,
11-12" flex head 3/8 ratchet, socket storage

3/8" drive 6 point chrome metric socket set
10mm - 19mm

3/8" drive Torx Bit Driver Set (T-27 - T-55)

1/2" drive socket set
6 point standard chrome 3/8" - 1 1/4"
12 point standard chrome 3/8" - 1 1/4"
1/2" drive ratchet, socket storage
1/2" drive break over bar 21"-24"

1/2" drive Impact socket set
6 point deep impact 1/2" - 1 1/4"
2" & 6" impact extension
1/2" drive impact universal joint
1/2" drive 12 point chrome standard metric socket set 10mm - 19mm

Flair nut wrench set 3/8" - 7/8"

Metric flair nut wrench set 9mm - 21mm

Groove joint pliers 10" - 12"

Slip joint pliers 7" - 9"

Needle nose pliers 7" - 9"

Heavy-duty diagonal cutting pliers 7" - 9"

Vice-grip curved jaw locking pliers 10"

Combination screwdriver set 4 slotted tips;
3 Phillips, size 1, 2, 3;
Stubby slotted; stubby Phillips

Ratcheting Screwdriver set (magnetic preferred) with minimum of: Philips 1,2,3; Slotted 5/32", 7/32", 1/4"; Torx T10-25

Allen SAE short arm hex key set (.028" - 3/8")

Allen metric hex key set (1.5 mm - 10 mm)

12 point combination wrench set 1/4" - 1 1/4"

12 point metric combination wrench set 7mm - 19 mm

16oz. ball-pein hammer

2lb soft face dead blow hammer

3 lb cross-pein hammer

5/8x6-1/2x1/2 cold chisel

3/8x5 center punch

5/32x5x3/8 taper punch

3/16x5-1/2x5/16 pin punch

3/4" - 1" diameter Brass drift

18"-21" rolling head (lady foot) pry bar

18"-24" pry bar with plastic handle and angled blade

Safety Glasses (clear)

25' tape measure

Feeler gauge set 0.0015 to 0.035"

Valve-tappet feeler gauge set .008" - .026"

Telescoping magnetic retrieving tool

Flexible retrieving tool

Gasket scraper

2"- 3" telescoping mirror

Seal Pick Set

Flashlight: minimum 2D cell, prefer MSHA approved, explosion proof

Rollaway tool cabinet: Minimum 5 drawer, 8000 - 12000 cubic inch storage capacity with ball bearing slides

Digital Volt-Ohm Meter and case with specifications as the Knight Electronics K-260
3 1/2 Digit, 2000 Count, High resolution on volts 20mV current 20µA Ohm ranges
DC Volt: **0-20/200mV/2/20/200/1000V** ±0.5%
AC Volt: **0-20/200mV/2/20/200/750V** ±1.5%
DC Current: **0-20/200µA/2/20mA/2/20A** ±1.5%
AC Current: **0-20/200µA/2/20mA/2/20A** ±2%
Resistance: 0-20/200 ohm/2K/20K/200K/2000K ohm/20M ohm/2000M ohm ±1%
Capacitance: 0-200P/200P/20nF/200nF/2µF/20µF/ ±3%
20A fused protection
Frequency: **Auto ranging** up to 15MHz ±0.5%
Continuity: < 40 ohm±20 ohm
Diode Test function
100VDC/750VAC overload protection in DCV, ACV above 2V

Outside Micrometer 0-1" (.0001" grad.) **or** 0-25mm (.001mm grad.) Swiss Style (not digital) with ratchet stop or friction thimble, lock lever and carbide tips

Dial Caliper 0-6" **or** 0-150mm

6" stainless steel rule - English 1/32 & metric 1mm

Heavy Duty Oil Filter Strap Wrench 1/2 inch drive up to 9" diameter

Optional

Top tool chest
1/2" impact wrench
1/2" drive standard impact sockets
1/2" drive metric standard impact sockets
1/2" drive metric deep impact sockets
1/2" ratchet drive micrometer torque wrench 30-250 ft-lb
3/8" ratchet drive micrometer torque wrench 50-250 in-lb
12" pipe wrench
3/4" drive socket set

Need Money?

Scholarship Resources on the Web



www.collegefunds.net



<http://www.wiredscholar.com/>



www.fastweb.com



www.freshinfo.com



Scholarships.com Free College Scholarship Search & Financial Aid Resource

www.mach25.com

<http://www.scholarships.com/>

Also try searches on web search engines like "Free+scholarships" or "free+grants"

Vary the search to include the job you would like to do and scholarships, i.e.
"Medical+free+scholarships"

Or the major you would like to pursue, i.e.
"accounting+scholarships+free"

Some Popular Search Engines:



www.yahoo.com



www.google.com



www.lycos.com



www.askjeeves.com



www.hotbot.com



www.altavista.com



www.excite.com



www.northernlight.com

FINANCIAL AID WEB SITES

FINANCIAL AID SEARCHES:

FastWeb Financial Aid Search – www.fastweb.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.ogslp.org

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

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

GENERAL INFORMATION:

Coalition for Student Loan Reform – www.cslr.org

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

