



KATS

Kwazulu Natal Automotive Training Services



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HOW WE AT KATS CAN SUPPORT YOUR BUSINESS?

A world of rapid transformation, that is the automotive Industry today. Accelerated innovation cycles in the automotive business, the pressure to be agile, quick, lean, and efficient has never been more intense nowadays. To succeed, you need well trained staff with extensive and broad automotive expertise for today's market.

There's never been a stronger need to respond to customer demand in the shortest possible time with more detail. You have to react faster and provide more value than the competition and leverage all available human capital knowledge in order to make better, faster decisions thus ensuring improve business performance.

ABOUT THE COLLEGE

KATS has prestigious colleges in KwaZulu-Natal and Gauteng offering a wide range of high quality technical and business programmes to many small, medium and large companies. We offer a wide range of training services in the motor/transport industry. We also offer affordable onsite and offsite training and assessment services for business mission critical disciplines in this industry. Our courses are recognised both in South Africa and internationally. Our NAMB/merSETA accredited qualifications are in high demand by commerce and industry.

All campuses have well-equipped workshops for practical work and lecture rooms. Our Information Communication and Technology boasts the latest in technology solutions for our students. This initiative continues to improve the quality of education provided to our students as well as gives them a leading edge over other colleges.

Student Support Services are available at all times and include services such career guidance, assistance with study skills, and peer education, to name but a few.



COURSES OFFERED (NAMB/merSETA ACCREDITED)

Learnerships and Skills Programmes

The College offers various learnerships and accredited programmes through merSETA, TETA and other governing bodies to both Government and the commercial sector.

For an update on current and past projects and learnerships, please refer your queries to charles@katstraining.co.za

Our courses at a glance

Autotronics Module 1 – 5:

The automobile is subject to ever increasing technological advances. These advances are continuously being incorporated into the electrical systems of automobiles. They represent the integration of mechanical, hydraulic, pneumatic, electronic and electrical systems and are managed by microelectronic control known as Computer Integrated Auto Management (CIAM) Systems. Consequently, the auto-electrical skills required to maintain such automobiles are changing to incorporate more electronic skills.

The field of autotronics deals with the installation, diagnosis and repair of CIAM systems. People working in the field of autotronics require specialised technical skills and knowledge and well as highly developed analytical skills to enable them to install, diagnose and repair CIAM systems.

The autotronics sector falls within the ambit of South Africa's large motor industry. There are huge motor assembly plants in several parts of the country, primarily in the Eastern Cape, Gauteng and Kwa Zulu Natal provinces. There are also many automotive related sectors like the automotive components manufacturing and assembly industries, automotive sales and service sector, repairs (including panel beating and spray painting) industries. It's a sector that employs a large number of people. Companies and/or industries within this sector operate in a global competitive and challenging environment.

The highly developed autotronics sector is well-established and economically powerful. In terms of transformation in the country, learners will require skills and competencies to gain access to positions within management structures by completing other qualifications and training. It will be in the interest of the country and the sector to ensure that those who operate in the autotronics environment are trained according to this Qualification to improve productivity and efficiency.

This series of autotronics qualifications reflects the skills,



knowledge and understanding required to perform effectively in industry, whether in micro, small, medium or large enterprises.

Prerequisites: Matric preferably with Math and Science

CBMT Level Based Training (Level 1 to 4) Petrol and Diesel

CBMT Petrol and Diesel comprises of 4 Levels. Upon completion of each level, a level test will be done. The learner needs to achieve above 80% in order to progress to the next level. When Level 4 training has been completed, the test has been conducted and the learner has passed, the learner will be declared competent as a Motor or Diesel mechanic.

Upon completion of each level, a level test will be done. The learner needs to score above 80% in order to progress to the next level. When level 4 training is completed, the test passed and the results processed, the learner will be deemed competent as a motor mechanic.

Prerequisites: Matric preferably with Math and Science

NQF Level 2-4 Petrol, Diesel and Tractor

A learnership is a structured learning process for gaining theoretical knowledge and practical skills in the workplace leading to a qualification registered on the NQF.

A learnership is outcomes-based and not time-based and allows for recognition of prior learning. Learnership duration varies but the average is about 18 months.

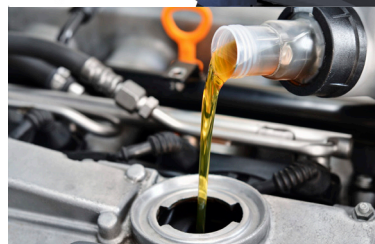
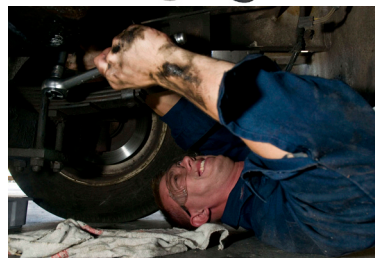
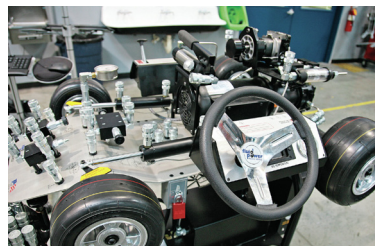
Note: In practice, to attain an artisan equivalent qualification (NQF level 4) four separate learnerships will have to be completed (i.e. qualifications at NQF levels 1, 2, 3 and 4 will have to be attained).

Prerequisites: Matric preferably with Math and Science

Section 26D Pre-trade and Trade Test Diesel

The Section 26 D (4) Act 97 of 1998 trade test a way of recognising the prior learning and experience of a person who has been working for some years in a particular trade but has not passed a trade test and is therefore not recognised as a qualified artisan. After the applicant's suitability for a trade test is determined, the applicant will then undergo a trade test at a NAMB/merSETA accredited trade test centre.

Prerequisites: Please refer to our online Section 26 D (4) Application form which reflects the minimum criteria required to qualify as an applicant for the Section 26 D (4) Trade Test.



Section 26D Pre-trade and Trade Test Petrol

The Section 26 D (4) Act 97 of 1998 trade test is a way of recognising the prior learning and experience of a person who has been working for some years in a particular trade but has not passed a trade test and is therefore not recognised as a qualified artisan. After the applicant's suitability for a trade test is determined, the applicant will then undergo a trade test at a NAMB/merSETA accredited trade test centre. *Prerequisites: Please refer to our online Section 26 D (4) Application form which reflects the minimum criteria required to qualify as an applicant for the Section 26 D (4) Trade Test.*

Service Advisor:

The Service Advisor Learnership is accredited by NAMB/merSETA and upon completion the candidate will obtain a Further Education And Training Certificate in Automotive Sales And Support Services: NQF Level 4.

The Service Advisor's most important duty is customer service. He advises consumers at auto dealerships or car repair facilities about the need for regular maintenance. He listens to their concerns and their requirements, then prepares orders that describe the problem, the potential fixes needed, the time it takes to complete the repair and the estimated cost, broken down by labor and parts. Finally, he handles any complaints the customer may have and makes sure he/she is satisfied with the service. Mechanical skills are also necessary to be able to function in this position. Service Advisors must be able to diagnose problems based on what the customer initially tells them and by asking the right questions. They then visually inspect the area of concern for additional clues before conveying this information accurately to technicians, who can locate the problem and apply the correct fix. When the technicians are done, Service Advisors must be able to translate complex automotive terms and procedures into something that consumers can understand.

Pre-requisites: Matric with preferably Math and Science



Parts and Aftersales Services

The purpose of this qualification is to provide learners, education and training providers and employers with the standards and the range of learning required to work effectively in various sub-sectors of the industry as automotive sales persons. The primary skill that is recognized in this qualification is the ability to apply the fundamental competencies of automotive sales with reference to recognizing and responding to prospective clients of the organisation within identified functional areas of sales. It also provides learners who have gained relevant experience in the workplace with an opportunity to obtain credits through an RPL process.

Pre-requisites: Pre-requisites: Matric with preferably Math and Science

INDUSTRY RELATED COURSES

5th Wheel Training:

5th Wheel training involves fifth wheel coupling that provides the link between a semi-trailer and the towing truck, tractor unit, leading trailer or dolly. Some recreational vehicles use a fifth wheel configuration, requiring the coupling to be installed in the bed of a pickup truck as a towing vehicle. The coupling consists of a kingpin, a 2-or-3 1/2-inch (50.8 or 88.9 mm) diameter steel pin on the front of the semi-trailer, and a horseshoe-shaped coupling device called a fifth wheel on the rear of the towing vehicle.

Pre-requisites: Matric with preferably Math and Science

B S I Integrated Applications

This software is a complete workshop solutions used by the automotive industry. This application covers Bookings/ Appointments, Vehicle Repairs, Quality Control, CRM and Management Reports.

Pre-requisites: This is a company specific application (you need to be employed in a company that uses this application)

Hydraulics:

Hydraulics is a topic in applied science and engineering dealing with the mechanical properties of liquids. At a very basic level hydraulics is the liquid version of pneumatics. Fluid mechanics provides the theoretical foundation for hydraulics, which focuses on the engineering uses of fluid properties. In fluid power, hydraulics is used for the generation, control, and transmission of power by the use of pressurized liquids. Hydraulic topics range through some part of science and most of engineering modules, and cover concepts such as pipe flow, dam design, fluidics and fluid control circuitry, pumps, turbines, hydropower, computational fluid dynamics, flow measurement, river channel behavior and erosion.

Pre-requisites: Matric with preferably Math and Science

CDX : WHEELS AND TYRES Chapters 1-4

This is a short program that is offered for learners who wish to specialize in wheels and tyres

Wheels must be strong enough to support the vehicle and withstand the forces caused by normal operation. At the same time, they must be as light as possible, to help keep un-sprung weight to a minimum.

The tyre provides a cushion between the vehicle and the road to reduce the transmission of road shocks. It also provides friction to allow the vehicle perform its normal operations. At some point customers would need to have the tyres checked by a trained professional.

This custom designed course encompasses 4 chapters of our nationally recognised competencies covering the following topics:

Chapter 1 - Safety and first aid in the workshop

Chapter 2 - Using lifting equipment

Chapter 3 - Understanding wheels and tyres on vehicles

Chapter 4 - Understanding and performing real balancing and alignment on a heavy – duty vehicle

Prerequisites and duration

Learners will start his/her training at and will be expected to acquire the essential skills in the workshop environment.

Duration of Course: 2 Weeks



CDX FORKLIFT TECHNICIAN LEVEL 1

This is a short skills program: Uses CBMT Framework. Diesel technology or heavy equipment mechanics. The learners receive theoretical; classroom based education as well as practical exposure within the college environment.

As you prepared to work in the forklift industry, you'll need to learn a whole new vocabulary terms like hygroscopic, asymmetrical, reciprocating motion and volumetric efficiency are just a few examples of the new vocabulary you will need to master. Just as healthcare professionals need to know how each of the body's system functions, the organs that make up the system and how to diagnose an issue, forklift technicians need to have the same level of understanding about forklifts. You will also need to master the metric system.

Knowing the correct forklift industry terminology and concepts will help you fit into your new work environment as well as communicate accurately with customers, suppliers and co – workers. You will also be able to complete job cards, part requisitions and warranty paperwork as you maintain, diagnose and repair forklifts. The term forklift is used generally to include forklifts fitted with internal combustion engines, electric forklifts, lift trucks, reach trucks, side loaders and rough terrain forklifts.

The following topics are covered on this course:

- Introduction to Training in The Forklift Industry
- Safety and First Aid in The Workshop
- Identifying Fluids, Lubricants, Metals and Materials
- Care and Use of Tools Applicable to the Trade
- Identifying Locking Devices: Chapter 5
- Identifying and Fixing Gaskets and Seals
- Applying Basic Hand Skills
- Introduction to Forklifts and Forklift Technology
- Understanding the Fundamentals of Lubrication Systems
- Understanding Basic Electricity, the Testing and Repairing Circuits
- Using Lifting Equipment
- Perform a Service on a Forklift
- Fusing Metals
- Workplace Communication



Basic Mechanical Courses (RSA's)

Under the supervision of the Technician, a Repair Shop Assistant performs routine servicing and lubrication of buses and automotive vehicles or mechanical equipment; performs minor and moderately complex mechanical work and assist the Technician with journey level maintenance and repair work. Other related duties may be assigned such as

- Lubricates equipment in accordance with established procedures and charts; checks and changes oil, oil filters and air filters, fuels and services buses and other vehicles; replaces hoses, belts, water pumps, batteries and similar equipment and parts.
- Checks fan belts, hoses, wiper blades and other safety equipment; checks radiators and batteries, checks water and antifreeze levels; checks air in tires and adjusts pressure; repairs flat tires and changes tires as necessary.
- Maintains records of work performed and the need for future servicing. Cleans and maintains shop facilities and equipment.
- Assists the Technicians in performing moderate to complex overhaul and repair work on engines, transmissions, drive unit, brakes, suspension systems, hydraulic systems, fuel systems, cooling systems, alternators, electrical systems, instrumentations and other necessary power equipment.
- Uses a variety of testing equipment such as ammeters, voltmeters and gauges to determine malfunctions and the need for repair.
- Drives buses and other motorized equipment as needed.
- Performs other related work as required and assigned.

Pre-requisites: Matric with preferably Math and Science

CUSTOMISED COURSES

Any of our curriculums can be combined to form a customised course on special request by companies.

INFORMATION AND COMMUNICATION TECHNOLOGY

Online Assessments (Assessing Student Knowledge/Learning)

KATS uses Object-Oriented Dynamic Learning software which can be accessed via our website by all our students when doing their online assessments. This software is our e-learning platform, also known as a Learning Management System, or Virtual Learning Environment (VLE) for staff in the motor industry. This system is entrenched in KATS Training services and is used for the benefit of all our students. This system assesses the learner's current knowledge at his/her particular level (motor industry) and assists our lecturers and company managers to better understand where the staffs/learner's/apprentice's shortfalls are. All training and testing conducted conforms to NAMB/merSETA standards. Please note that we cover most functional areas in a typical dealership.

Web Link: <http://katstraining.co.za/moodle/login/index.php>

We have a comprehensive list of assessments/quizzes covering the automotive industry. These are as follows:

- 5th Wheel
- Aptitude Test
- Autotronics Module 1 (Electronic Principles)
- Autotronics Module 2 (Ignition System Components)
- Autotronics Module 3 (E.F.I Principles)
- Autotronics Module 4 (Starting and Charging System)
- Autotronics Module 5 (Lighting System)
- Booking Clerk and Admin Supervisor
- B S I Integrated Applications
- Communication Skills
- Costing Clerk
- Crane Operator and Signaller
- Ford - Engine Management and Diagnostic Fundamentals
- Foreman
- Forklift (Lift Trucks)
- Heavy Vehicles
- Hydraulics
- Level Based Training (Level 1 to 4)
- Light Motor Vehicles
- Motorcycles
- Parts and aftersales Manager
- Parts Department general Knowledge
- Parts Manager
- Parts Picker Packer
- Parts Sales Executive Customer Counters
- Parts Storeman
- Parts Workshop Counter Sales Executive
- Quality Controller
- Rigging
- Section 26D Pre-trade Diesel
- Section 26D Pre-trade Petrol
- Service Advisor
- Service Manager (General)
- Service Manager (All)
- Service Manager (Single Assessment)
- Truck Brakes Quiz
- Warranty Clerk & Warranty Admin Clerk
- Workshop and Parts Department Driver
- Workshop Controller

Web Link: <http://katstraining.co.za/moodle/login/index.php>

Kats Video Portal (Video Tube Teacher):

The Kats Video Portal has rich visual learning content to assist our students in the motor industry. These videos are entrenched in KATS Training Services and are used for the benefit of all our students. We also have WIFI access available for the students to learn on site via their mobile devices. They can also access this information off site as well. These Videos assist the learners to improve on the current knowledge at his/her particular level (motor industry).

Web Link: <http://katstraining.co.za/KVP/>

Facebook:

We have created a platform where our students can interact with each other across the motor industry. Sharing knowledge has helped mankind survive and evolve into the intelligent and productive species we know today. We are in the business of education and imparting knowledge and sharing makes a *significant difference our students' everyday life at work.*

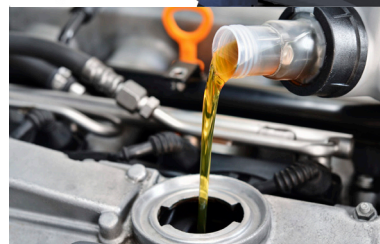
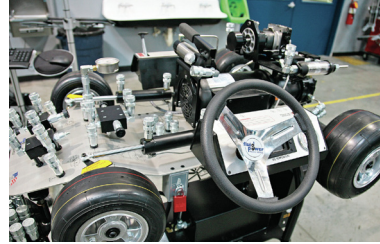
Web Link: <https://www.facebook.com/KatsTrainingServices>

PRODUCTS (TOOL BOX)

Our products are competitively priced. As a KATS client you are automatically placed as a Bronze partner with us giving you access to purchase our Jonnesway toolbox for all learners enrolled at our college.

CERTIFICATION/ACCREDITATION

KATS Training is a decentralised Trade Testing Facility (DTTC) and Training centre that provides Pretrade Diesel and Petrol training as well as a range of other motor industry related courses which is accredited. These can be viewed on our website.



MINIMUM ENTRANCE CRITERIA FOR SECTION 26 D (4) (Previously Section 28)

QUALIFYING CRITERIA CATEGORIES:

- A. Minimum three (3) years relevant work experience within South Africa and N2 four subjects certificate or equivalent qualification including relevant trade theory. OR
- B. Minimum three (3) years relevant work experience within South Africa and Relevant Engineering NC(V) NQF level 3. OR
- C. Minimum three (3) years relevant work experience within South Africa and Technical Grade 12 with Maths, Engineering Science and related theory subject. OR
- D. Minimum Eighteen (18) months relevant work experience within South Africa, completed of all relevant work experience modules and Relevant Engineering NC(V) NQF level 4. OR
- E. Minimum Eighteen (18) months relevant work experience within South Africa and relevant (directly related to the trade theory subjects) N6 certificate or National Technical Diploma (S and N Stream)
- F. Minimum four (4) years work experience within South Africa with Grade 9 (Standard 7)
- G. Successful completion of merSETA registered NQF Level 2, 3 and 4 trade related learnerships with minimum two (2) years, inclusive of the institutional and workplace components OR
- H. Former apprentice who have met the section 13 trade test requirements and their contract got rescinded before qualifying as artisan.
- I. Former apprentices under Section 13 terminated before they could qualify for trade test, and either have proven eligibility for Artisan RPL (Recognition of Prior Learning) trade test based on acquired skills from the formal training part under Section 13, or have undergone additional approved training to meet the requirement.

DOCUMENTS REQUIRED WITH THIS APPLICATION

(CERTIFIED BY THE COMMISSIONER OF OATH):

- A. Clear originally certified copy of Identity Document
- B. Originally certified copy of highest school qualification
- C. Original or originally certified service letter on a company letter head as proof of experience within South Africa with detailed daily duties, start date and signed off by the duly authorised person. OR
- D. An affidavit (SAPS) may be accepted with the details (addresses, telephone number and references in case the company has closed down or company refusing to issue the letter or applicant being operating in informal businesses). The applicant must undergo pre-test assessment. The evaluation will be investigated and verified by the Quality Assuror.
- E. Where applicable, originally certified copy of a valid work permit.

NOTE:

- A candidate, who attempted a trade test and passed at least 50% of the number of tasks given, will be given credits for those tasks. The credits accumulated will be retained by the candidate for a maximum of 3 attempts or 18 months from the date of successful completion of the trade task whichever comes first.
- A period of at least one-month must lapse before a 2nd attempt at a trade test may be undertaken.
- The merSETA will communicate the outcome of the application directly with the applicant and not third party.
- Applicant must not be registered on an apprenticeship or learnership.
- An arrangement may be made for merSETA to pay for the trade test fee for unemployed candidates.
- A pre-assessment may be recommended whereby the cost will be born by the employer or candidate.
- Service letters from all employers (current and past) on an original company letterhead reflecting the dates of service, that the applicant is employed as a Petrol/Diesel mechanic or RSA and 6-10 major duties that the applicant performs on a daily basis within the workshop.

