

The TDA Tech Series® [click here](#)

Presents

“Mechanics & Electricity”

What Is “The TDA Tech Series®”?

[The TDA Tech Series®](#) is our platform for delivering technical and technological skills through innovative partnerships. **#MultiplePathways**

Announcing The Mechanics & Electricity programme! (NOW OPEN TO TDA AND NON-TDA STUDENTS)!

In this latest installment of the TDA Tech Series®, 20 Standard 6 and 7 Primary School students **(BOTH TDA AND NON-TDA)** will be offered the opportunity to learn how to maintain and service an engine and a machine. Students will learn:

1. the parts and components of an engine and a machine,
2. how to diagnose issues and service an engine and a machine,
3. how tyres work in a vehicle,
4. entrepreneurial skills from working directly with a business owner, and
5. how these skills can translate into a fulfilling and successful career.

The course will be led by TDA Fellow, Ms. Masada T. Deconnick. Ms. Deconnick is the CEO of MTD’s Auto Electrical, an auto electrical business, servicing Mochudi and surrounding areas.



Her business has been operating for more than 8 years, during which she has worked on all types of vehicles, trucks and machines. She holds a National Certificate in Auto-Electrical from Botswana College of Engineering and Technology. She believes in empowering women and has been running an organization that donates toiletries to the less fortunate for over 10 years. To learn more about Ms. Deconnick’s journey in the auto mechanics industry, click [here](#); to listen to Ms. Deconnick’s interview with Duma FM, click [here](#). To learn more about Ms. Deconnicks’ business click [here](#); to learn more about the TDA Fellowship programme click [here](#).

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Why Introduce Mechanics & Electricity @TDA?

In our daily lives, we rely heavily on engines and machines to do a number of things, from transportation, to tools to make our life easier and to toys for entertainment. As important as engines and machines are in our lives, most of us do not have the basic knowledge or skills to diagnose or fix any issues that may arise. **@TDA** we continually strive to give students the opportunity to learn skills and gain knowledge that can help improve their lives and the lives of those around them, whilst supporting their everyday learning and opening up new opportunities for jobs or businesses. **#MultiplePathways@TDA**



Further, we wish for students to internalise the understanding that just because an engine or a machine looks broken or appears old, it doesn't mean that it doesn't have value. Students should always first use their **#Creativity** when faced with troubleshooting an issue. We want to show students that through creative problem solving, they are able to identify and fix an issue, be self reliant and also engage in careers that have a positive effect on their community.

As always, Covid-19 prevention guidelines will be strictly followed.

What Did TDA Students Learn in Mechanics and Electricity in 2021?



During the inaugural TDA Mechanics and Electricity programme in 2021, TDA Secondary School students worked on a DAF military vehicle (seen in the above pictures) to have it operational by the end of the programme. The students learned about parts and components of the vehicle, diagnosed it to find out what was broken and needed either fixing or replacement, requested for necessary parts, and fitted these onto the vehicle.

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How Will it Work?

The programme is open to a total of **20 Standard 6 and 7 TDA and non-TDA primary school students**. The programme will run three times a week, every Monday, Tuesday and Thursday from 13:30 to 15:00 at The Dow Academy Primary School Campus.

Under the guidance of Ms. Deconnick, the students will be working to fix some engine-based equipment set aside specifically for the purpose of enhancing the students' hands-on experience. The programme will introduce students to the theory and application of mechanics and electricity. Through this hands-on programme, they will gain the understanding of how engines work, how to identify issues and understanding of how to fix and maintain these.

Students will learn about the different types of engines and machines, major components of an engine and machines and their uses, common issues that can arise and how to troubleshoot and fix them. Students will have one class of theory, one class of practicals, and one class for application of these every week, allowing them to apply their knowledge as they work on fixing the engine based machines located on campus. In this interactive programme, students will learn how to identify and procure parts that they need, how to run a small business and how to collectively repair an engine and a machine with the guidance of our TDA Fellow, Ms. Deconnick.



At the end of this programme, these students will obtain **a foundation on how engines and machines operate, an understanding of what it takes to start and run a business and new insight into a skill they can pursue as a career.**

How Do I Apply?

Interested **TDA and NON-TDA Primary School students** are eligible to apply.

TDA STUDENTS	NON-TDA STUDENTS
Email a one page typed document to tdatechseries@thedowacademy.org OR	Email a one page typed document to tdatechseries@thedowacademy.org OR
Submit a handwritten letter to your class teacher. The application should describe why the student is interested in the programme, and how they would use the skills they learn to help their community.	Submit a handwritten letter to the TDA Primary School Campus Reception, with "TDA MECHANICS AND ELECTRICITY" written at the top of the letter. The application should describe why the student is interested in the programme, and how they would use the skills they learn to help their community.
TDA PARENTS - Please click here to confirm consent for your child to participate.	NON-TDA PARENTS - Please click here to confirm consent for your child to participate.

*20 students will then be selected based on the quality of their applications **AND** the parents' completion of the parent consent form.*

The deadline for the application is **20 January 2022** and will be strictly enforced. For the selected students, there is a participation fee that will be due by **26 January 2022**.

When Does it Start and How Much Does it Cost?

Mechanics & Electricity Programme	1 February 2022 - 7 April 2022 14:00 to 15:30 Mondays, Tuesdays and Thursdays
Venue	The Dow Academy Primary School Campus
Cost	P1,000 per student*. <u>This is a one-time fee for the whole term.</u>

*The cost per student covers the professional services of our Fellow Ms Masada Deconnick. TDA will cover the costs of purchase of the engine and parts.