

# PtSA News

Newsletter of the Production Technologies Association of South Africa

Issue 17—September/October 2021

## PtSA

## The voice of the TDM Industry in South Africa

**PtSA is the collective voice of the TDM Industry with government and authorities regarding the development of the industry in South Africa.**

PtSA, which represents the Tool, Die, Mould and Special Machining Industry, or the tooling sector, was established more than 15 years ago by the tooling industry to address the decline in capacity in the industry and the loss of competitiveness, leading to the loss of ability to support the manufacturing sector and the economy as a whole.

At the time it was estimated that local companies could only satisfy 15% of the local demand for tooling.

During this period, the local tooling sector, represented by PtSA, established a dialogue with government, for government to understand how tooling is critical and central to developing a sustainable and competitive manufacturing sector.

**“Over 2 000 young people trained”**

which revealed that the industry was fragmented, was under-skilled and had failed to invest in new technology.

This led to the commissioning of a study known as the FRIDGE (Fund for Research into Industrial Development Growth and Equity) Study into the South African TDM industry,

At the same time, the Study highlighted that there were several opportunities to rehabilitate and grow the industry, but that it required active government and industry intervention.

**The outcome was that PtSA formed a partnership with government to establish Intsimbi National Tooling Initiative** (later known as Intsimbi Future Production Technologies Initiative), that created the opportunity for government to support an industry-led



programme to rehabilitate and grow the tooling sector.

**Through this partnership the government has given funding amounting to R900m to the programmes for this rehabilitation of the tooling industry, with industry contributing approximately R300m.**

These programmes have resulted in the establishment of the skills programmes to provide skilled

people for the tooling industry, the establishment of four training facilities, the training of over 2 000 young people and the implementation of enterprise competitiveness development projects in over 150 companies.

PtSA continues to engage with government on behalf of the tooling industry to ensure that these pro-

grammes continue to be supported by government into the future for the benefit of the tooling industry.

In addition, PtSA plays a meaningful role on various structures within **the dtic** to influence policy and programmes for the benefit of the tooling industry, and is actively involved in the development of Master Plans such as the Steel Master Plan.

## From the desk of the CEO -

## Tapiwa Samanga

**According to the August 2021 statistic report, manufacturing production in South Africa advanced by 12.5% year-on-year in June this year, following an upwardly revised 36.3% jump in May.**



It was the fourth consecutive month of rising industrial activity. This, of

course, has to be taken in context considering the Covid – 19 induced disruptions of 2020.

Although businesses have been influenced negatively by the coronavirus pandemic, our country has shown its resilience and potential to overcome challenges.

Experts forecast that the manufacturing industry will nearly double its output by 2025 making this one of the most exciting sectors to work in.

Closer to home, I am proud to announce that we

are eagerly preparing our Centres of Excellence across South Africa for a new intake of students in October.

As we are entering a new season, I would like to urge our constituency to become involved with and participate in PtSA's drive to improve the tool, die, mould and special machining sector in South Africa by attending upcoming events, becoming members of the Association and also holding us accountable to be the voice of the tooling industry.

During the past few months, I have also been networking with government and companies to form sustainable partnerships to improve our service offerings and to develop our membership-base.

**"PtSA is part of the Skills Development Committee of the South African Steel Master Plan"**

I am pleased to announce that PtSA is part of the Skills Development Committee of the South African Steel Master Plan.

This gives PtSA the opportunity to share its skills development experience and participate in promoting the sustainable growth of manufacturing skills in South Africa.

- Tapiwa

PtSA has a partnership agreement with Government



# Comments from the COO - John McEwan

**Welcome to the September / October 2021 issue of PtSA News. This Newsletter is being published a few weeks after we have seen and, in many instances, directly experienced, the unrest in KwaZulu-Natal and Gauteng which brought destruction, loss of life and disruption which our economy and country can ill afford.**

This has highlighted many of the challenges that we face in our country and has also brought out the best in many of our people and communities.

I would like to quote Mr Adrian Gore, CEO of Discovery, in a letter he wrote to members of Discovery Medical Scheme, "It goes without saying that the recent unrest is

symptomatic of real underlying societal problems such as poverty and unemployment. I urge you to think about the profound anecdotes of bravery, community, and resilience we have seen. Take the neighbours in Durban who caught the child thrown by her mother from a burning building, or the residents in Soweto who protected Maponya Mall by

forming a circle of arms through the night. Not to mention the residents in Diepsloot who launched door-to-door campaigns to recover looted property or the healthcare workers who continue to go above and beyond the call of duty to offer care in the most trying of circumstances. This is the South Africa we subscribe to. **A country where there is an unprecedented collaboration between government and the private sector** to roll out a vaccination campaign for its citizens; where the supremacy of the Constitution

and the independence of its judiciary are upheld; and where, when the rule of law is threatened, citizens stand up and declare – 'not

in my name''.

In a time when we can all throw up our hands and go into depression, these words by Adrian are encouraging and we thank all the people who are still positive about our country and who see beyond the recent images of destruction. We also thank our own employees who defended prop-

erty and who continued with implementing our Programmes during this time of unrest.

**The Enterprise Competitive-Business Development Programme and the TDM Powered Apprenticeship Programme offered by PtSA address many of the societal problems such as poverty and unemployment described by Adrian in his letter, by improving the competitiveness of companies, thus supporting growth in manufacturing, and by upskilling of people; thereby giving opportunities for them to seek employment.**

These Programmes offered by PtSA are described in more detail in this Newsletter and support the potential growth in manufacturing and the upskilling of our people in South Africa.

We encourage companies to participate in these programmes and to become part of the solution for our country. We trust that you enjoy this Newsletter and that you find it useful.

- John



**Programmes offered by PtSA support the potential growth in manufacturing and the upskilling of our people in South Africa.**

## Upcoming Events

**2022**

**PtSA is planning an international conference to be held in March 2022. If you would like to participate in panel discussions, or if you would like to promote your business with an exhibition stand, please contact the PtSA Office as soon as possible!**

## PtSA office in Cape Town

→ opens its facilities for you

We are pleased to announce that PtSA recently upgraded its conferencing technology and facilities in its Cape Town office.

State of the art video conferencing technology may be used by our members to connect for meetings, webinars, workshops and events. The facility can host up to 40 people.



If you are planning a function or workshop and you would like to use our facilities, please contact Liza du Plessis at [lizadp@ptsa.co.za](mailto:lizadp@ptsa.co.za) / (021) 914 6038 to book the facility.

## Meet the PtSA Regional Managers

**PtSA recently appointed Regional Managers in Gauteng, Western Cape, Eastern Cape and KwaZulu-Natal, to best service the needs of the PtSA members in each region.**

These managers are responsible for the PtSA Regional Centres of Excellence (formerly known as the Regional Training Centres) as well as being responsible for the promotion of the various PtSA programmes in the regions and **ensuring that our PtSA members are fully supported in the regions.**

They will work closely with the PtSA Regional Executive Committees, and will offer support to these committees, including making the Centres of Excellence available for use by the committees and members in the region, for activities such as net-

working, meetings, matchmaking etc. The managers will be supported by the Association office, and will have Industry Liaison Officers reporting to them as well as lecturing and support staff in each Centre of Excellence.

As has been previously indicated, PtSA is offering short training courses to industry, in addition to the Apprenticeship Programme which is described in this Newsletter. The Regional Managers will be able to assist our PtSA members with regard to these courses, or the development of particular courses as required by the members.

**Please make contact with the Regional Manager in your region, for any assistance that you may require.**



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Technology Simplified

PtSA negotiated a discount for our members!

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20% OFF

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GSTARCAD MECHANICAL



GSTARCAD ARCHITECTURE



Intratech (Pty) Ltd, a member of PtSA, is offering the Gstarsoft Solutions portfolio of software to the local market at very competitive prices.

In addition, they are offering discounted prices to all PtSA members who purchase the software before the end of October 2021.

Please refer to the table for pricing and discounts.

Gstarsoft Solutions is a portfolio of powerful established 2D CAD Design, Mechanical, detailing, and drafting software solutions, with a huge global user base.

They offer low once off costs of implementation, no annual subscription fees, free technical support for a full year, and a wealth of online training and information resources.

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INFO@GSTARCADZA.CO.ZA

WWW.GSTARCADZA.CO.ZA

PRODUCT	PRICE	DISCOUNTED PRICE FOR PtSA MEMBERS
GstarCAD Standard 2021	R7 320	R5 856
GstarCAD Professional 2021	R8 999	R7 199
GstarCAD Mechanical 2021	R14 000	R11 200
GstarCAD Architecture 2021	R14 000	R11 200

Contact the PtSA office (johnmc@ptsa.co.za or 082 882 0599) to apply for your discount, or contact Intratech (www.intratech.co.za).

# Local start-up aims to Educate South African Kids through Locally Manufactured Educational Toys

Keki and Kekana Kiddies (Pty) Ltd, a member of PtSA, uses modern manufacturing technologies to produce quality wooden educational toys and child-safe functional furniture for the local market.

According to the founder of the company, Ipfi Mushavhela, "the company was started to help solve the high and increasing crime rates in the country. We believe that another way of fighting crime is by investing in and focussing on the early development of any child.

We also believe that toys are tools that can be used to teach and train a child in certain skills that will equip them to be better adults in the future and consequently help them making better decisions, other than committing a crime." With their manufacturing operation based in Gauteng, utilising the facilities in an

**The company believes that their membership of PtSA will assist them with access to improved technologies and to increase their network-base.**

incubator for their manufacturing processes, **the company believes that their membership of PtSA will assist them with access to improved technologies and to increase their network-base.** Currently, they are using CNC technology for their cutting processes and CAD for the design of their products, with many hand-operations in between.

Ipfi, a qualified Process Engineer, with experience in plant, production, and safety management, understands the importance of production efficiencies and the need to ensure her business is competitive against the import market, while at the same time providing much needed employment opportunities for local people.

She says, "to date we have employed a number of unemployed graduates who have assisted us in the early stages of the business, and we look forward to growing the business and expanding our employment opportunities." We wish Ipfi and her team all the best for the future.



**Ipfi Mushavhela** with a range of the toys produced by the company.



Computer Aided Design is used to perfect the designs of the toys.

**Anyone wishing to get involved with the company, or interested in the products produced by the company should contact Ipfi ([ipfi@kekiandkekana.co.za](mailto:ipfi@kekiandkekana.co.za)) or the PtSA office ([hettief@ptsa.co.za](mailto:hettief@ptsa.co.za)).**

## PtSA and Productivity SA Continue to Collaborate

As was previously reported in our PtSA Newsletters, PtSA and Productivity SA have established a collaboration agreement for the benefit of PtSA members.

This agreement has already benefitted many PtSA members, who have participated in the programmes offered by Productivity SA such as the Kaizen Project Programme and the Business Turnaround and Recovery Programme.

The following is an extract from an article on collaboration written by Mr Albert Brink, Executive Manager: Regional Operations for Productivity SA. Time is a scarce and expensive commodity for most. Time to keep up with all the changes and gain the required experience and expertise to deal with challenges stemming from an ever-changing business environment is not readily available. Faced with a predicament?

On the one hand 'I don't have the time to figure out how to deal with something' whilst on the other hand "I have to figure out how to deal with something if I want to make progress and remain competitive'.

So, why try to master everything yourself or try to figure things out for yourself if others have already learnt the lessons?

Joining an established network such as PtSA, where people facing similar challenges or pursuing similar goals, work together, makes business sense, as it provides a platform for collaboration.

Establishing a one-on-one relationship with expertise-based service providers such as Productivity SA can also go a long way towards dealing with the predicaments facing us all.

Collaboration is when two or more people (or groups) work together by sharing the means to accomplish a common goal.

To establish a collaborative relationship requires, for a start, exploring and understanding the common

goal or challenge and a willingness to share ideas, information, knowledge and experience. Establishing and maintaining collaborative relations is not easy. Not everybody is equally comfortable at contributing to proceedings in open forums.

Some people are inflexible and not willing to entertain different (even opposing) views.

Despite these and other challenges, it is generally accepted that effective collaboration leads to exceptional outcomes which are in the best interest of all. Join an industry sector body where issues of mutual interest can be debated – where knowledge and experience can be shared in the interest of all.

Joining an established network such as PtSA, where people facing similar challenges or pursuing similar goals, work together, makes business sense, as it provides a platform for collaboration.

## Jendamark Equips People *to be More Productive*

Jendamark Automation, a PtSA member from the Eastern Cape, has developed stand-alone hardware and software solutions which can be integrated into any new or existing production facility to improve the productivity of the operators and support infrastructure, and thus improve production efficiencies.

In a time when there is a fear that 4IR technologies will have a negative effect on jobs, Jendamark, with their ODIN Manufacturing Ecosystem, is proving that their data-driven 4IR solutions can in fact reduce the loss of jobs by:

- Bolstering productivity
- Improving product quality
- Reduce downtime
- Monitoring employee wellness



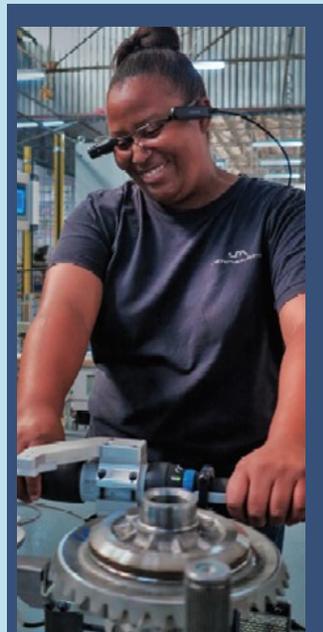
Marinus van Rooyen

According to Marinus van Rooyen, Jendamark Manufacturing and Assembly Manager, the Fourth Industrial Revolution is here but is not to be feared. It is an opportunity for African manufacturers to embrace a home-grown, hum-centric approach to improving production efficiencies. ODIN Manufacturing is making digital technologies work for Africa.

"We believe in using tech to compete globally while creating jobs for our growing population. Unlike automation, digitisation is not about taking people off production lines, but rather equipping them to be more productive," said Marinus.

PtSA fully supports the concept of using 4IR to improve productivity and to grow employment in our country, while at the same time ensuring that our manufacturing is becoming increasingly competitive.

**We thank Jendamark for sharing their developments with us and our members.**

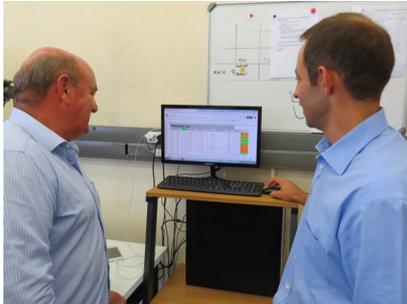


ODIN being used to assemble differential components

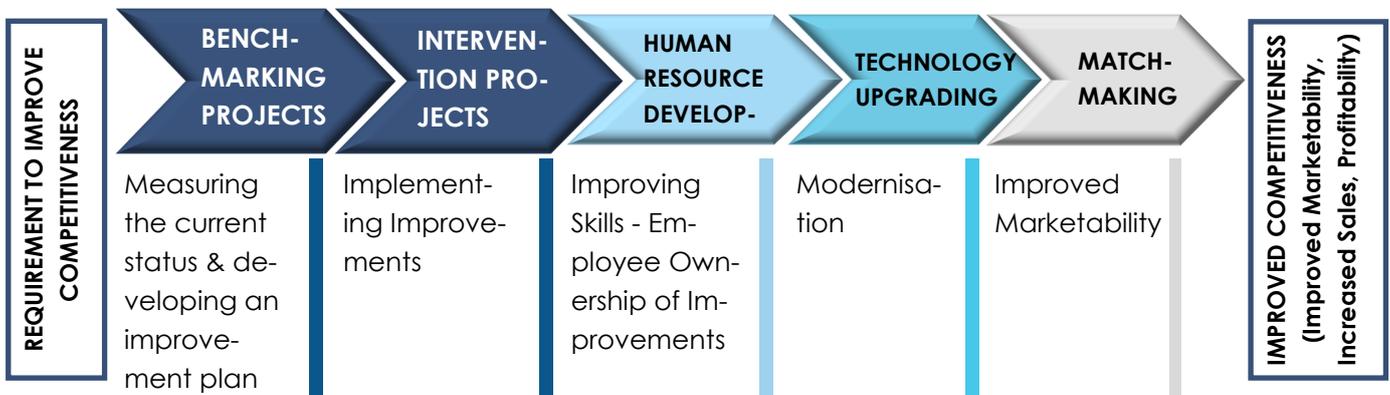
[enquiries@odinmanufacturing.io](mailto:enquiries@odinmanufacturing.io)  
[www.odinmanufacturing.io](http://www.odinmanufacturing.io)

# Improve Your Company's Competitiveness

PtSA offers the tool, die, mould and special machining industry (TDM Industry) a PtSA Enterprise Development Programme to improve the competitiveness of the TDM industry in support of manufacturing in South Africa.



This Programme forms part of a Structured Value Chain:



PtSA has partnered with the **Werkzeuginstitut Akademie GmbH (WBA)** - the world leaders in tooling- specific research and consulting - to implement the Programme through the PtSA project management and implementation company.

The costs for the PtSA Enterprise Development Programme are subsidised by the dtic.

**Note: Priority will be given to the TDM Industry and to PtSA Members. The next round of Benchmarking will start in October 2021, and the Intervention Projects will start in November 2021 (Note: only companies which have been previously Benchmarked will be eligible to participate in an Intervention Project).**

Quote from Riedwaan Roberts (Toolroom Foreman at Bowler Plastics): "The Benchmarking and Intervention Project has given us the opportunity to take a look at ourselves and to start to implement the improvements which we had wanted to do, but had not yet got around to doing. The assistance from PtSA and WBA has been a good catalyst for us to start our improvement process".

Quote from Ashley Lodewyk (Toolroom Manager at Nampak Liquid): "As a result of the Intervention Project, a number of changes and improvements have been implemented which have certainly improved our efficiencies. These include improved workflow, setting up a visual management system, implementation of daily operational meetings and weekly safety meetings, improved storage systems and implementation of an employee suggestion system. The most positive improvement being that everyone is taking accountability for themselves as well as each other. Management is so impressed with the improvements that they have set these as the standard for all the workshops in Nampak Liquid Packaging. It was definitely the right decision to partner with PtSA/WBA".

Contact Je'Maine James-Lowicki (jemainej@ptsa.co.za) to participate in the Programme.

# PtSA

## Medical Assistance Scheme

## PtSA and Momentum Launch Medical Assistance Scheme

We are pleased to announce the launch of the PtSA / Momentum Medical Assistance Scheme for the benefit of our PtSA members.

PtSA has worked closely with Momentum, a PtSA Partner, to reach an agreement which will offer the PtSA members a Medical Insurance product as well as a Medical Aid Scheme, depending on the income levels of the members' employees.

PRODUCT	CATEGORY	MONTHLY EMPLOYEE IN-COME	MONTHLY COST (Subject to premium increases for 2022)	BENEFITS
Health4Me	Medical Insurance	R30 000	R294 Main Member R294 Adult Dependent R148 Per Child (max 4)	<ul style="list-style-type: none"> <li>GP visits to a network of GPs</li> <li>Day-to-day benefits through a network of private doctors and specialists</li> </ul>
Ingwe Network	Medical Aid	Up to R7 450  R7 451 to R9 850 R9 851 to R14 050 R14 051 +	R940 (main member)  R1 196 (main member)  R1 665 (main member)  R2 984 (main member)	<ul style="list-style-type: none"> <li>Hospital Plan at Network Private Hospitals</li> <li>Day-to-day benefits through a network of private doctors and specialists</li> </ul>
Evolve	Medical Aid (Excludes Chronic)		R1 345	<ul style="list-style-type: none"> <li>Hospital cover at Network Private Hospitals</li> <li>Day to day benefits from Health Saver*</li> </ul>
Custom	Medical Aid	n/a	From R1 706 (Based on Members' choice)	<ul style="list-style-type: none"> <li>Chronic cover</li> <li>Add savings account onto Health Saver*</li> <li>Member selects list of Private hospitals</li> <li>Day to day benefits from Health Saver*</li> </ul>
Incentive	Medical Aid	n/a	From R2 224 (Based on Members' choice) (Includes 10% for Medical Savings)	<ul style="list-style-type: none"> <li>Hospital Cover</li> <li>Chronic Cover</li> <li>Day-to-day from Medical Savings Account</li> </ul>

\*A savings account that lets you save for additional day-to-day medical expenses (flexible solution for minimum R100 per month according to members' flexibility and affordability)

### Benefits of the PtSA / Momentum Medical Assistance Scheme:

- PtSA members will enjoy the benefit of being grouped and receive focussed attention;
- Dedicated contact assistance from Momentum Help Desk;
- PtSA will ensure that members are supported by Momentum;
- Possibility of no waiting periods for PtSA members when joining the Medical Assistance Scheme, dependent on negotiations.

## GOOD NEWS!!!

# Students Can Return to Complete the TDM Apprenticeship Programme

For further information, please send a mail to [tdmenquiries@ptsa.co.za](mailto:tdmenquiries@ptsa.co.za)



**Tapiwa Samanga discussing the Programme with Thandisiswe Landu.**

**Students who have left the TDM Programme Apprenticeship Programme, can return to the Programme to complete their outstanding subjects towards qualifying as a Machinist or Toolmaker.**

The Programme has been designed to allow students to exit the Programme at prescribed

stages and then to return to complete the Programme at a later stage.

The Programme is modular which allows the students flexibility to suit their individual circumstances.

Students can return to complete their outstanding subjects by

sending an email to [tdmenquiries@ptsa.co.za](mailto:tdmenquiries@ptsa.co.za).

Once an application is received, the cost for completing the outstanding subjects will be calculated and the applicant will be informed.

## Liza du Plessis joins the Association Office

**Liza du Plessis recently relocated from the PtSA Centurion Office to the Association office in Cape Town, as the PtSA Communication Officer.**

"I am looking forward to be a part of the Western Cape team and to assist in helping the company reach its goals," she said.

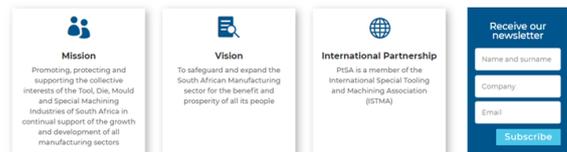
She has been with the organisation for a number of years, being responsible for public relations and communication.

We welcome Liza to the Cape Town office and wish her all the best in her new environment.



## PtSA Website revamped for Easy & Quick Access to Important Information

[www.ptsa.co.za](http://www.ptsa.co.za)



PtSA is excited to announce the launch of its newly designed website!

"Our goal with this new design is to create a user-friendly browsing experience for our members, business partners and visitors. We hope you enjoy the uncluttered design that is easy to navigate," said John McEwan.

When opening the PtSA website homepage, you will find useful information about the Association's services, mission, and how to become a member.

From the homepage, the latest news, application forms and more information about the Programmes we are offering, is only one click away.

As we are serving our members, we request that you give us feedback of any improvements which will help you. Please contact Liza du Plessis.

# S4 Integration Implements Improvement Measures



*S4 Integration, situated in Gqeberha in the Eastern Cape, has recently undergone a PtSA Intervention Project to improve their competitiveness in order to better service their local and international customers. This intervention project, undertaken by PtSA through funding from the Eastern Cape Government DEDEAT, followed a three-stage-approach of profiling the company, analysing the company capabilities, and then determining measures required to improve the competitiveness of the company.*

S4 Integration, a member of PtSA, offers innovative industrial automation and machine building solutions to the manufacturing industry.

Working closely with the management of S4 Integration, the PtSA Enterprise Development team developed several improvement measures to be implemented in the company such as:

- Improved shopfloor layouts,
- Improvements to the company website,
- Improved marketing strategies for the company including online marketing,
- Improved shop floor management processes,
- Displaying company vision and mission on the shopfloor, and
- Implementing cost benefit analysis tools.

**The company is implementing these measures under the guidance of the PtSA team.**

Says Andrew White, MD of S4 Integration, S4 Automation, and S4 Devserv (making up the S4 Group of Companies), **“the project is helping us to focus on**

**some of the important issues which will assist us to improve the competitiveness of the company, and in growing the company for the benefit of our customers and our employees”.**



**Andrew White**

**“We started the company in 1995 at a time when many people said to us that South Africa has no future, but we went ahead anyway, and we are proud to say that we have grown the company to now service both the local and international markets, with installations in over 11 countries, spread across five continents. We are grateful for this assistance, and we look forward continuing on this journey of continuous improvement”.**

**Any company wanting to be considered for participation in an Enterprise Competitiveness Development Programme should approach the PtSA Enterprise Development Team.**

**(Jemainej@ptsa.co.za)**

# PtSA Offers Trade Testing for Occupational Certificate: Toolmaker (SAQA 91796)



PtSA is offering the opportunity for candidates to undertake their Trade Test at a subsidised cost, in one of the PtSA Trade Testing Centres in the Western Cape and Gauteng.

This subsidised cost will be only for the direct cost incurred in preparing the candidate for the test, such as ARPL and Refresher Training, and for the actual Trade Test.

In addition to subsidising the cost, PtSA is offering a 20% discount to PtSA members.

For more information, please contact  
Stacey-Ann Solomons (StaceyannS@PtSA.co.za)



## International footprint boosts PtSA offering

**PtSA is a member of the International Special Tooling and Machining Association (ISTMA) and currently holds the Presidency of the Association.**

ISTMA is an international association representing 22 Special Tooling and Machining Associations throughout the world.

Collectively, ISTMA member associations represent over 8,000 companies and over 120 billion U.S. dollars in annual sales. ISTMA World is responsible for the central coordination and organization of all international activities.

Currently, PtSA is assisting one of its members to connect with companies in North America for assistance with an installation of a manufacturing system in the USA.

Any PtSA member wishing to make use of these international connections, can contact the PtSA office.



[www.istma.org](http://www.istma.org)

# PtSA and CAMASA cooperate



The Commercial Aviation Manufacturing Association of South Africa (CAMASA) was formed in 2016 to integrate the collective offering of the South African aviation sector, in order to boost exports by the sector.

**PtSA and CAMASA are exploring ways that the two associations can cooperate for the benefit of the members of each association, and thereby increase the manufacturing base in South Africa.**

Says Johan Steyn, Chairman of CAMASA and Managing Director of Aerosud Aviation, "the local commercial aviation manufacturing sector is heavily reliant on the tooling sector in South Africa, and

thus it makes good sense that we work together to grow both sectors. PtSA has developed a number of programmes that can benefit our members, and at the same time we can promote networking and matchmaking processes between the members of our Associations to ensure that the aviation manufacturing sector is well supported by the tooling sector into the future".

The first areas of cooperation between the Associations include skills development, based on the short courses developed by PtSA, and Enterprise Development, which is being offered to a number of CAMASA members through the PtSA Enterprise Development

Programme.

Says Je'Maine James-Lowicki, PtSA Manager – Enterprise Development, "the PtSA Enterprise Development Programme is being offered to a number of CAMASA members to assist these members with improving their competitiveness. We are keen to support the commercial aviation manufacturing sector as it is an important sector for growing exports from South Africa".

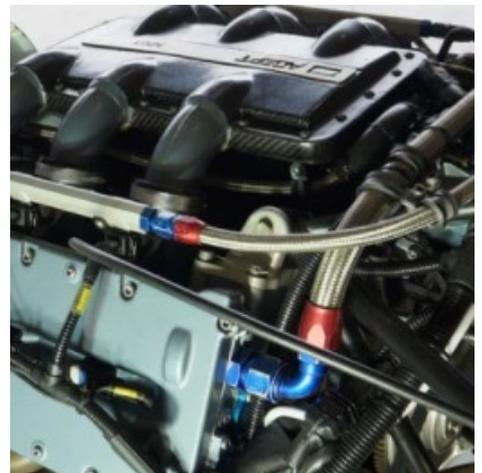
**Any company wishing to learn more about the Skills Development and Enterprise Development Programmes offered by PtSA, can contact the PtSA office.**



**PtSA** Production Technologies Association of South Africa



**CAMASA**  
Commercial Aerospace Manufacturing Association South Africa



**PtSA Partner:**

**momentum**  
consultants & actuaries

# The PtSA Tool, Die and Mouldmaking (TDM) Apprenticeship Programme in a Nutshell

PtSA, as the Development Quality Partner (DQP), has developed a number of SAQA approved artisan qualifications and apprenticeship programmes for the TDM and Special Machining industry in South Africa.

The 4-year apprenticeship programmes combine Trade Theory (theoretical training), simulated practical workshop training and work experience with participating companies (On-the-Job Training).



## What are the Trades and Qualifications?

- SAQA registered and QCTO and merSETA accredited Toolmaker NQF Level 5
- Tooling Machinist NQF Level 5

The programmes are offered in QCTO accredited PtSA Centres of Excellence in:

- Parow (Western Cape),
- Gqeberha (Eastern Cape),
- Hermanstad (Gauteng) and
- Pietermaritzburg (KwaZulu-Natal).

## Benefits of a PtSA Apprenticeship

- **During an apprenticeship a company receives benefits such as:** Productive work by the apprentice during work experience (OJT), SETA Grant towards training costs can be accessed, tax breaks from SARS, and BBBEE points for skills development.
- **After an apprenticeship a company benefits from:** Skilled employees (trained to industry standards) are immediately productive, lower risk from recruitment (recruitment undertaken by PtSA), and enhanced employee retention.

## Change Technical Skills Training in a Company from a cost to a profit

Costs (based on four (4) year Apprenticeship)		Financial Benefits to the Company	
PtSA training costs @R80 000 PA x 4 years	R320 000	SETA apprenticeship training grant	R206 000
		SARS training allowance	R44 800
Apprentice wages based on MEIBC wage Scale for 2021	R467 000	SARS Tax incentive	R18 000
		Value of apprentice to Company	*R568 000
		Savings on Recruitment costs (recruitment by PtSA)	R50 000
<b>Total Cost to Company:</b>	<b>R787 000</b>	<b>Total Benefit:</b>	<b>R886 800</b>

**NET BENEFIT TO COMPANY**

**R99 800**

\*Source: - "Final Report of Cost-Benefit-Quality Project" merSETA & University of Bremen June 2016, adjusted to 2021.

If you have any questions about participating in the PtSA TDM Apprenticeship Programme, send an email to John McEwan ([johnmc@ptsa.co.za](mailto:johnmc@ptsa.co.za))



# New Flexible and Precise Power Tool for Easy 3D Inspections

**T-SCAN hawk:  
The New Portable 3D Scanning Solution**

The T-SCAN hawk is the answer to a broad range of inspection tasks around the shop floor that have to be done on-site. The portable, stand-alone, hand-held laser scanning system comes with the pre-installed GOM Inspect Suite inspection software and delivers precise 3D data and high-quality results. The flexible 3D scanner gathers measurement data in production environments, labs or at the workbench which are then used for quality controls of parts and tools, reverse engineering, or other purposes.

## Made for manufacturing and maintenance

The portable T-SCAN hawk is a useful tool for 3D inspections of wear and damage and for matching actual data with CAD, and thus makes life easier for users in maintenance, repair and overhaul. Areas such as 3D printing, rapid prototyping and reverse engineering are also perfect application fields for the flexible system. The pre-installed GOM Inspect Suite software guides the user through the entire workflow of scanning, probing and inspecting, making the process fast and easy.



RGC Engineering (Pty) Ltd. is a leading engineering company in the South African precision engineering sector.

The company has become a part of the global network, #HandsOnMetrology and offers the GOM scanning solutions locally in Southern Africa to fully meet the needs of the customers. The new portfolio of #HandsOnMetrology focuses on the “new to the market” hand-held measuring systems T-SCAN 10 and T-SCAN Hawk as well as GOM’s compact 3D scanner ATOS Q.



[www.rgcengineering.co.za](http://www.rgcengineering.co.za)

# Join the Best - Become part of the Network

Become part of the network of companies which forms the tool, die, mould and specialised machining industry in South Africa.

## Connectivity

- PtSA members have the opportunity to become part of the national and global network of TDM companies.

## PtSA is the collective voice of the TDM industry

- The PtSA partnership agreement with government (INTSIMBI Future Production Technologies Initiative) facilitates dialogue between the TDM industry and government.

## Improvement of competitiveness of PtSA members

- PtSA, through the process of improving the competitiveness of companies, facilitates the growth of the supplier base for the benefit of the larger corporates, and in particular the OEM's.

## Training and upskilling programmes

- PtSA is a provider of toolmaking and machinist training programmes that ensure trained artisans are available to the industry;
- PtSA has accredited training facilities in Western Cape, Eastern Cape, Gauteng and KwaZulu-Natal as the base for these artisan training programmes;
- PtSA short courses are available to its members in order to continuously improve the level of skills within member companies, and in particular with regard to new technologies.

## Networking, matchmaking and information programmes

- PtSA hosts regular Networking meetings in the Western Cape, Eastern Cape, Gauteng and KwaZulu-Natal.

## Better understanding of the Fourth Industrial Revolution (4IR)

- PtSA facilitates the understanding of technology developments for its members by means of information programmes, demonstrations, publications and networking.

## PtSA facilitates international connections for its members through its membership of the International Special Tooling and Machining Association (ISTMA World)

- Access to over 21 Associations in 20 countries/8000-member companies.

## PtSA promotes sustainable development within the industry to ensure long term growth of the industry

- PtSA facilitates opportunities for members to have access to information, training, workshops, etc. on sustainable development.

PtSA corporate facilities are available for use by its members PtSA website provides information about international and national news, events and trends in the industry.

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