

MELSOFT ACADEMY PROSPECTUS

Accredited by:

mictseta

SAQA

QCTO
Quality Council for Trades & Occupations

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INTRODUCTION

Welcome to our globally accredited online school, a thrilling journey into the heart of tech! Designed for beginners and career-switchers alike, our bootcamps offer a unique promise - a guaranteed internship on graduation!

Our bootcamps in Software Engineering, Cybersecurity, and AI Prompt Engineering provide targeted pathways to a thriving tech career. Master in-demand skills like Full-Stack JavaScript development (React, NodeJS, AWS Cloud), cybersecurity defence strategies, or the cutting-edge art of AI communication.

Gain expertise in the most soughtafter fields and shape the future of technology.

In addition to a solid technical foundation, our bootcamps nurture your soft skills, creativity and collaboration skills.

You'll not just learn to code; you'll learn to solve problems, work in teams, and deliver practical solutions - the skills that truly set you apart in the industry.

So, are you ready to jumpstart your career with a guaranteed internship and globally accredited certifications?

Let's code, create, and conquer the tech world together. Your future starts here!

→ **6**
Years of operations

300+
Happy Students

→ **5**
Cities across the world

20+
Awards

WHO IT'S MADE FOR

FOR ABSOLUTE BEGINNERS:

If you've ever been curious about tech but don't know where to start, our bootcamps are your perfect first step. Our programs are designed to guide you from zero to coder in an engaging, supportive, and motivating environment. You don't need any previous experience just bring your enthusiasm and willingness to learn!

FOR INEXPERIENCED STUDENTS:

Already dipped your toes into the world of tech, but feeling the need for a more structured, comprehensive, and hands-on learning experience? We'll enhance your theoretical know-how with practical projects and a guaranteed internship.

FOR PROFESSIONALS LOOKING FOR A CAREER SWITCH:

If you're a professional feeling stuck in your current job and yearning for a change, look no further! Our bootcamps will give you the necessary skills to pivot your career towards tech, one of the most dynamic and rewarding industries. With the guidance of our award-winning instructors, a guaranteed internship, and globally accredited certificates, you'll be ready to make your mark in the tech world.

CYBER SECURITY ANALYST (NQF L5)

Occupational Certificate: SAQA ID 118986 | 173 Credits

Mandatory Key Phases:

- Knowledge Building: Months 1-4
- Practical Skills: Months 5-8
- Work Experience: Months 9-12 via simulated or partner workplaces

Duration: 12-18 Months (Fully Online Live Sessions)
Entry Requirements: Matric (Grade 12)
Accreditation: QCTO/MIC SETA
Unique Features: Includes 4IR focus (AI, IoT security); RPL for access.

What is Covered:



Risk Analysis and Mitigation

This involves identifying, analyzing, and resolving security risks and vulnerabilities to protect information system assets. This includes understanding legal and regulatory requirements, performing vulnerability testing, and developing mitigation strategies.



Threat Protection and Response

This focuses on proactively protecting organizational digital assets from both internal and external threats. It includes implementing and managing security systems (anti-virus, firewalls, etc.), access control, and intrusion detection/prevention systems.



Ethical Security Monitoring

This emphasizes the ethical dimension of cybersecurity, requiring analysts to monitor systems, detect intrusions, and report incidents while adhering to organizational policies and ethical guidelines.



Incident Response & Mitigation

This involves responding to and mitigating cyberattacks, including containing breaches, preventing expansion, and resolving incidents. It includes investigation, data collection, and reporting.



Recovery and Improvement

This focuses on restoring systems and data after a cybersecurity incident, analyzing the attack to identify lessons learned, and implementing improvements to prevent future occurrences. This includes producing comprehensive incident reports.

Refer to page 16 for tuition fees

SOFTWARE DEVELOPER (NQF L5)

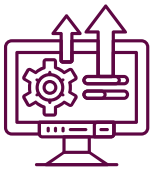
Occupational Certificate: SAQA ID 118707 | 220 Credits

Mandatory Key Phases:

- Knowledge Building: Months 1-4
- Practical Skills: Months 5-8
- Work Experience: Months 9-15
  Real/simulated projects, including a capstone.

Duration: 12-18 Months (100% Online Live Sessions)
Entry Requirements: Matric (Grade 12)
Accreditation: QCTO/MICT SETA; vendor-agnostic.
Outcomes: Software lifecycle, APIs, DevOps basics, Web & mobile, Databases

What is Covered:



Software Development Lifecycle

Understanding the stages involved in creating software, from initial requirements gathering and analysis to design, implementation, testing, deployment, and maintenance.



Software Design

Creating a blueprint for the software, including the architecture, data structures, algorithms, and user interface (UI) design. This often involves using modeling languages like UML (Unified Modeling Language) to visually represent the design.



Programming

Writing the actual code using a suitable programming language based on the design specifications. This involves understanding data structures, algorithms, and object-oriented programming principles.



Testing and Debugging

Thoroughly testing the software to identify and fix bugs (errors) and ensure it meets the specified requirements. This includes various testing methods like unit testing, integration testing, and user acceptance testing (UAT).



Version Control

Using systems like Git to manage different versions of the code, track changes, and collaborate effectively with other developers.

Refer to page 16 for tuition fees

DATA SCIENCE PRACTITIONER (NQF L5)

Occupational Certificate: SAQA ID 118708 | 185 Credits

Mandatory Key Phases:

- Knowledge Building: Months 1-4
- Practical Skills: Months 5-8
- Work Experience: Months 9-15 Real/simulated projects, including a capstone.

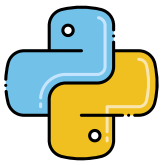
Duration: 12-18 Months (100% Online Live Sessions)
Entry Requirements: Matric (Grade 12)
Accreditation: QCTO/MICT SETA; comparable to elite international diplomas in Canada and India.
Unique Features: Python, Statistics, ML fundamentals Visualisation, SQL

What is Covered:



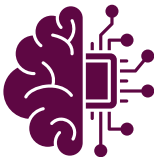
Databases

In this unit, you will learn to use Structured Query Language (SQL) for querying relational database management systems. The focus is on understanding data within databases through practical exercises, including a case study that applies your SQL knowledge.



Python

Students learn Python data collection from CSV, Excel, and APIs via Pandas and Requests, plus BeautifulSoup scraping. Using NumPy and Pandas, they master cleaning techniques like handling missing data or outliers, and transform raw datasets for advanced analysis.



Machine Learning

The course covers the fundamentals of machine learning, including the differences between supervised and unsupervised learning, and introduces key algorithms like Linear Regression and KNN. Students will engage in hands-on assignments and projects to apply concepts such as train-test split, crossvalidation, and model evaluation.



Statistics for Exploratory Data Analysis

This unit focuses on the essential statistical concepts foundational to data science, primarily drawn from David Spiegelhalter's "The Art of Statistics."Through reading chapters, completing exercises, and quizzes, students will learn about data modeling, uncertainty assessment, probability theory, and advanced statistics, enhancing their analytical skills.

Refer to page 16 for tuition fees

AI SOFTWARE DEVELOPER (NQF L5)

Occupational Certificate: SAQA ID 118792 | 209 Credits

Mandatory Key Phases:

- Knowledge Building: Months 1-4
- Practical Skills: Months 5-8
- Work Experience: Months 9-15
  Real/simulated projects, including a capstone.

Duration: 12-18 Months (100% Online Live Sessions)
Entry Requirements: Matric (Grade 12)
Accreditation: QCTO/MICT SETA; compares to Grey Campus/IBM cert (UAE/USA) and Microsoft Azure AI Fundamentals.
Outcomes: Python, LLMs & agents, Cloud deployment, PyTorch and Systems design

What is Covered:



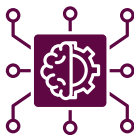
AI Solution Design

Analyse data to create a Software Design Document (SDD). Define AI solutions for real-world problems, including problem-solving frameworks and data alignment.



Data Preparation & Analysis

Clean, organise, and interpret data to identify patterns. Develop a solution design document based on structured analysis.



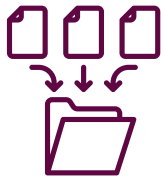
Algorithm Selection & Model Training

Match problem type to suitable algorithms (classification, regression, etc.). Train AI models using machine learning processes while maintaining accuracy.



Solution Implementation & Deployment

Build AI solutions using Python frameworks. Deploy AI solutions on platforms, ensuring risk management and operational success.



Data Handling

Verifying data sources, assessing data quality, implementing critical thinking for data review, and preparing data using appropriate tools.

Refer to page 16 for tuition fees

DESIGN THINKING PRACTITIONER (NQF L4)

Occupational Certificate: SAQA ID 118705 | 100 Credits

Mandatory Key Phases:

- Knowledge Building: Months 1-4
- Practical Skills: Months 5-8
- Work Experience: Months 9-15 Applied Research and Creative Innovation Solution Design on real-world projects.

Duration: 12-18 Months (100% Online Live Sessions)
Entry Requirements: Matric (Grade 12)
Accreditation: QCTO/SAQA accredited
Outcomes: Discovery research, Prototyping, Workshops, Synthesis and Service design

What is Covered:



Apply positive psychology principles

These modules equip you with the secrets of positive psychology, transforming your interactions with teams, users, and stakeholders.



Do research to shape design thinking

Clean, organise, and interpret data to identify patterns. Develop a solution design document based on structured analysis.



Explore benefits of design thinking

Discover how Design Thinking empowers EVERYONE to solve problems with creativity and impact. From public entities to educators, businesses, and communities, you'll learn how design thinking adds value by boosting innovation and business development.



Develop 4IR and future skills

Explore emerging trends and how they'llimpact individuals, businesses, and communities. Master the future-ready skillset - from interpersonal and intrapersonal skills to communication mastery.

Refer to page 16 for tuition fees

SOFTWARE ENGINEERING BOOTCAMP

An intensive, hands-on program aimed at transforming beginners into job-ready full-stack developers. It focuses on practical skills in high-demand technologies, addressing South Africa's youth unemployment and digital skills gap.

Mandatory Key Phases: Full Bootcamp (Front-end and Back-end Development)

- Foundation (Weeks 1-4)
- Core Skills (Weeks 5-12)
- Advanced Application (Weeks 13-18)
- Capstone and Portfolio (Weeks 19-24)

Duration: 6 Months (100% Online Live Sessions)
Entry Requirements: Matric (Grade 12)
Benefits: Graduates receive global certifications, access to a thriving alumni network, and skills that enable freelancing or remote work

FRONT-END DEVELOPMENT

What is Covered:

→ HTML CSS B

HTML, CSS & Bootstrap

Begin your coding journey with the fundamentals of web development. Understand the structure and styling of websites with HTML and CSS, and learn to build responsive designs with Bootstrap. These foundational skills will pave the way for a successful coding career

→ JS { JavaScript }

JavaScript, ES6 & OOP

Unlock the dynamic world of web development with JavaScript and its modern syntax, ES6. Learn to create interactive web pages and delve into ObjectOriented Programming (OOP) principles, an essential paradigm for efficient and scalable code.

→ React

React & Redux

Dive into React, one of the most popular JavaScript libraries for building user interfaces. Learn how to create component-based web applications and manage their state effectively using Redux.

This knowledge is highly sought after in the industry, opening doors to numerous opportunities.

Refer to page 17 for tuition fees

SOFTWARE ENGINEERING BOOTCAMP
(CONTINUED..)

BACK-END DEVELOPMENT



NodeJS & Express

Transition to back-end development with NodeJS, a powerful JavaScript runtime. Learn to create servers, handle requests, and build your own APIs, equipping you with the skills to develop and maintain the serverside of web applications.



API's

Understand how to communicate with external services using APIs (Application Programming Interfaces). This knowledge is crucial in the modern tech landscape, where integration between different applications is a norm.



Databases

Master the art of data storage and manipulation with an introduction to databases. Learn how to interact with both SQL and NoSQL databases to ensure your applications can store and retrieve data efficiently.

Refer to page 17 for tuition fees

DATA SCIENCE BOOTCAMP

Intensive, practical program aimed at equipping beginners with the skills to handle the full data science lifecycle, from raw data processing to insightful decision-making.

Mandatory Key Phases:

- Foundation (Weeks 1-4)
- Core Skills (Weeks 5-12)
- Advanced Application (Weeks 13-18)
- Capstone and Portfolio (Weeks 19-24)

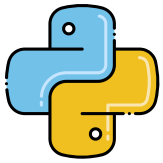
Duration: 6 Months (100% Online Live Sessions)
Entry Requirements: Matric (Grade 12)
Benefits: Graduates receive global certifications, access to a thriving alumni network, and skills that enable freelancing or remote work
Unique Features: Python, Statistics, ML fundamentals Visualisation, SQL

What is Covered:



Databases

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Python

Students learn Python data collection from CSV, Excel, and APIs via Pandas and Requests, plus BeautifulSoup scraping. Using NumPy and Pandas, they master cleaning techniques like handling missing data or outliers, and transform raw datasets for advanced analysis.



Machine Learning

The course covers the fundamentals of machine learning, including the differences between supervised and unsupervised learning, and introduces key algorithms like Linear Regression and KNN. Students will engage in hands-on assignments and projects to apply concepts such as train-test split, crossvalidation, and model evaluation



Statistics for Exploratory Data Analysis

This unit focuses on the essential statistical concepts foundational to data science, primarily drawn from David Spiegelhalter's "The Art of Statistics."Through reading chapters, completing exercises, and quizzes, students will learn about data modeling, uncertainty assessment, probability theory, and advanced statistics, enhancing their analytical skills.

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AI SOFTWARE ENGINEERING BOOTCAMP

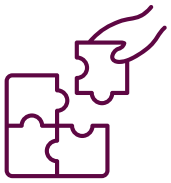
Intensive 6-month programme — for South Africa's most dedicated developers.

Mandatory Key Phases:

- Foundation (Weeks 1-4)
- Core Skills (Weeks 5-12)
- Advanced Application (Weeks 13-18)
- Capstone and Portfolio (Weeks 19-24)

Duration: 6 Months (100% Online Live Sessions)
Entry Requirements: Matric (Grade 12)
Benefits: Graduates receive global certifications, access to a thriving alumni network, and skills that enable freelancing or remote work

What is Covered:



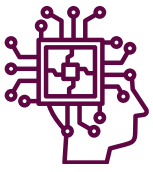
AI Solution Design

Analyse data to create a Software Design Document (SDD). Define AI solutions for real-world problems, including problem-solving frameworks and data alignment.



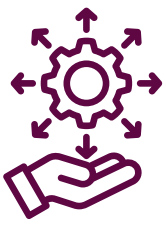
Data Preparation & Analysis

Clean, organise, and interpret data to identify patterns. Develop a solution design document based on structured analysis.



Algorithm Selection & Model Training

Match problem type to suitable algorithms (classification, regression, etc.). Train AI models using machine learning processes while maintaining accuracy.



Solution Implementation & Deployment

Build AI solutions using Python frameworks. Deploy AI solutions on platforms, ensuring risk management and operational success.

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CYBER SECURITY BOOTCAMP

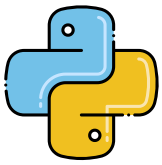
A comprehensive, hands-on program designed to build foundational and advanced skills in protecting digital assets from evolving threats. It addresses the critical global shortage of cybersecurity professionals, particularly in Africa, by providing practical training in defense strategies, ethical hacking, and incident response.

Mandatory Key Phases:

- Foundation (Weeks 1-4)
- Core Skills (Weeks 5-12)
- Advanced Application (Weeks 13-18)
- Capstone and Portfolio (Weeks 19-24)

Duration: 6 Months (100% Online Live Sessions)
Entry Requirements: Matric (Grade 12)
Benefits: Graduates receive global certifications, access to a thriving alumni network, and skills that enable freelancing or remote work
Outcomes: Ethical hacking, Network defence, SOC operations, Forensics, Network defence and Cloud security

What is Covered:



Python Basics for Cyber Security

You'll develop a professional ePortfolio website. This platform will showcase your projects, document your skills, and demonstrate your cybersecurity expertise to potential employers. Building a strong online presence is crucial for establishing yourself in the competitive cybersecurity field.



ePortfolio

You'll develop a professional ePortfolio website. This platform will showcase your projects, document your skills, and demonstrate your cybersecurity expertise to potential employers. Building a strong online presence is crucial for establishing yourself in the competitive cybersecurity field.



Linux Essentials

This foundational credential demonstrates your proficiency with the Linux operating system, a common environment for servers and security tools. Understanding Linux commands, file systems, and security concepts is crucial for effectively navigating and safeguarding various network systems.



Traffic Analysis

You'll learn to examine network data flows to identify malicious activity, potential vulnerabilities, and security breaches. The ability to understand and interpret network traffic is vital for proactive threat detection and incident response in any cybersecurity role.

Refer to page 17 for tuition fees

HOW WE WORK

Our unique weekly learning cycle blends structured learning, individual problem-solving, collaborative projects, integrated application of skills, and technical communication.

Individual assignments reinforce new concepts, while group projects foster teamwork and problem-solving in a real-world context.

Capstone projects allow the comprehensive application of weekly learnings, culminating in presentations that hone public speaking and technical articulation skills.

This efficient, iterative cycle ensures well-rounded skill development, closely aligning with industry demands, and paving the way for our student's success in the tech world.

LEARN

Watch & read tutorials on our online learning platform

INDIVIDUAL PROJECT

Complete exercises to practice what you've learnt

PAIR PROJECT

Solve a problem with a fellow learner at the same stage as you.

CAPSTONE PROJECT

At the end of a concept, put allyour new knowledge to use in a complex problem.

PRESENTATION

Showcase your work to your peers and mentors on a live call.

UNIQUE FEATURES

Our bootcamps unique features are designed to ensure comprehensive learning and career growth.

With personalized mentoring by award-winning instructors, innovative AI assistance, exclusive networking events, guaranteed internships, and freelance opportunities, we provide an enriched learning environment that prepares you for success in the tech industry.

Guaranteed Internships

Our bootcamp guarantees internships either at Melsoft or with one of our 1000+ partner companies, offering invaluable real-world experience and a smoother transition into the tech industry.

South African Accreditation

Thanks to our QCTO Accreditations, graduates earn locally recognised certifications that are aligned with SAQA Unit Standards and are recognised by employers and universities in South Africa.



Global Accreditation

Graduates earn globally recognised certifications from companies such as AWS, CompTIA, Cisco & the International JavaScript Institute, validating their skills and opening doors to worldwide opportunities in the tech industry. We prepare you to take the certification and you pay the exam fees out of your pocket!



Mentorship

Our bootcamp provides personalized mentoring sessions with award-winning instructors, ensuring tailored, pace-matched learning for maximum skill development.

ACCREDITED PROGRAMMES - TUITION FEES

Once-off Payment (0% Interest)	**R75,000.00**
3 Months Installments (3% Interest)	**R 25,750.00 Per Month**
6 Months Installments (5% Interest)	**R 13,125.00 Per Month**
8 Months Installments (7% Interest)	**R9,984.38 Per Month**
10 Months Installments (8%Interest)	**R8,062.50 Per Month**
12 Months Installments (9% Interest)	**R6,781.25 Per Month**
Student Loan Option 1: Student Hero (For 12 months+ Installments)	Click here for FREE Affordabilty Check OR Apply for your Student Loan Instantly!
Student Loan Option 2: MANATI (For 12 months+ Installments)	Click here for FREE Affordabilty Check OR Apply for your Student Loan Instantly!

BOOTCAMP - TUITION FEES

Once-off Payment (0% Interest)	**R 50,000.00**
3 Months Installments (3% Interest)	**R17,166.67 Per Month**
6 Months Installments (5% Interest)	**R8,750.00 Per Month**
9 Months Installments (7% Interest)	**R5,944.44 Per Month**
12 Months Installments (9% Interest)	**R4,520.83 Per Month**

Student Loan Option 1: Student Hero
(For 12 months+ Installments)

Click here for FREE Affordabilty Check
OR
Apply for your Student Loan Instantly!

Student Loan Option 2: MANATI
(For 12 months+ Installments)

Click here for FREE Affordabilty Check
OR
Apply for your Student Loan Instantly!

PAYMENT OPTIONS

ONCE-OFF PAYMENT

Opt for a one-time payment and enjoy a ***discounted rate****. This is our most cost-effective method of investing in your studies.*
Ask A Student Advisor for the discounted rate during enrolment!

MONTHLY INSTALLMENTS

Tailor your payment plan to your budget with customized monthly installments. We welcome payment plans of 6 - 12 months.

STUDENT LOAN

We assist you in securing a student loan payable over 24-72 months from major South African banks and financial providers. A credit check to assess affordability and a surety signature is required.

Click or Choose your preferred provider below for a FREE Affordabilty Check or Instant Application!

STUDENT HERO

MANATI
ALTERNATE STUDENT FUNDING

OUR SUCCESS STORIES



Mbali's dedication and the skills she honed at Melsoft Academy didn't go unnoticed. She caught the attention of Kickass Collective, a company known for its innovative projects and commitment to fostering a collaborative and supportive work environment.

Mbali (Kutlwano) Puso
From Unemployed to Full Stack Developer at Kickass Collective



After completing her course at Melsoft Academy, Grace secured a position as the Frontend Developer at Ad On Group. In this role, she is responsible for the comprehensive management and optimization of the company's online presence.

Grace Kipa
From Unemployed to Frontend Developer at Ad On Group



Lehlogonolo specializes in building scalable and user-centric applications, showcasing the power of determination and skill through every project. From mastering modern technologies to deploying secure and efficient solutions.

Lehlogonolo Shai
From Unemployed to Software Developer at ProcureSense

HOW TO APPLY

1. SUBMIT AN APPLICATION

Start by filling out our short application form by clicking the button below.

2. MEET YOUR STUDENT ADVISOR

After applying, one of our Student Advisors will reach out to walk you through the next steps. You can also schedule an online consultation session at your convenience.

3. REQUIRED DOCUMENTS

Once your consultation is complete, you will need to provide your certified copy of ID and Matric certificate to process your enrollment. Upon acceptance, a registration fee of R1,500 is payable to confirm your spot, as spaces are limited.

4. ATTEND AN INFO-SESSION

You may be invited to attend an informative webinar, providing more insights into our programs/courses and answering any queries you may have.

5. ENROLLMENT

We operate on a first-come, first-served basis, accepting a maximum of 20 students per cohort to ensure personalized attention and guidance. Make your payment to secure your spot.

6. START LEARNING

New intakes open every quarter: January, March, June and September. Apply early to secure your place!

Apply Now →

CONNECT WITH US TODAY

Our Website	*www.melsoft.org*
Our e-mail	*hello@melsoft.org*
Telephone	*010 158 4346*
HQ Address	*173 Oxford Road, Rosebank, JHB*