ICL YUSHU TRAINING ACADEMY

Yūshū EXCELLENCE

ICL YUSHU ACADEMY
SPECIALISED TECHNOLOGY SOLUTIONS

2025/
2026

ACADEMY PROSPECTUS

WWW.ICL.CO.ZA

WELCOME AND INTRODUCTION

Yūshū EXCELLENCE

ICL YUSHU ACADEMY

SPECIALISED TECHNOLOGY SOLUTIONS

We are delighted to introduce ICL YUSHU ACADEMY to you!

WWW.ICL.CO.ZA

PROSPECTUS

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Training Programmes GUIDE

Welcome to the ICL YUSHU ACADEMY. All fibre courses offered at our Academy are MictSETA accredited.

mictseta ACCREDITED

MictSETA qualifications are industry relevant and globally recognised. MictSETA accreditation provides assurance that qualifications are recognised internationally and can be used for international employment or further study.

About IC Logistix

Founded in 2011, IC LOGISTIX stands as a leader in the importation of specialised equipment for the optic fibre industry. Our comprehensive turnkey solutions include floating, splicing and testing, ensuring our clients receive the most advanced and reliable services available in the market.

Our commitment to quality is reflected in our partnerships with world-renowned brands, allowing us to deliver unparalleled technology and expertise to our customers. In 2024, we proudly inaugurated the first-ever Fujikura service lab in the Democratic Republic of the Congo (DRC), strengthening our commitment to innovation and service excellence. Continuing our journey of expansion, 2025 saw the launch of the ICL YUSHU ACADEMY in South Africa, further solidifying our position as an essential resource for industry training and development.

Our ambitions extend beyond just providing equipment; we are dedicated to nurturing strategic partnerships, supporting infrastructural development and contributing to the digital transformation across West, Southern and Central Africa. We are constantly exploring new opportunities and expanding our business scope to meet evolving market demands and technological advancements.

At IC LOGISTIX, we see ourselves not just as a supplier, but as a vital partner in the development of Africa's communications infrastructure. Our dedicated team, innovative approach and unwavering commitment to quality position us to lead a vibrant future in the fibre optic industry across the continent.

We look forward to collaborating with esteemed partners and clients as we continue to grow and unlock new possibilities for connectivity and development throughout Africa.

Training Excellence

About Yushu Academy

YUSHU ACADEMY is a new venture, established in 2025.

Our training centre, course materials and certification are SETA accredited, ensuring that you receive quality training by an expert trainer.

From beginner levels, to proficient, YUSHU training courses offer something new for everyone.

mictseta ACCREDITED

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FURTHER INFORMATION

For any enquiries or further information about our courses, contact the Dean of Students, Jabu Mdaka at: training@icl.co.za

Yūshū EXCELLENCE

ICL

SPECIALISED TECHNOLOGY SOLUTIONS
ICL YUSHU ACADEMY

Our Commitment to Excellence

In response to the need for highly trained, certified optic fibre technicians throughout Africa, YUSHU ACADEMY is committed to the highest standard, industry certified, theoretical and practical education.

YUSHU ACADEMY is committed to producing a skilled fibre technician workforce who can be part of Africa's rapidly growing infrastructure.

Juanita Clarke: CEO of The Digital Council of Africa

Foreword from Juanita Clarke

JUANITA CLARK

CEO of Digital Council Africa

It is such a pleasure to be invited to write the foreword in this prospectus. I have been privileged to be an active member in the fibre market in Africa since its inception approximately two decades ago. In the early days of a brand new market, there were several challenges, with access to skills certainly one of the most prominent issues at the time.

This period was further exasperated by intense consumer demand and operators had to continuously employ new people to meet the pace of deployment.

As the industry association for the fibre optic infrastructure sector, we could not stress enough, the importance of ensuring that staff were qualified and had the necessary skills to deploy the networks that are supposed to serve us for decades to come.

At the Digital Council Africa, we believe that skills development is the foundation and a critical aspect of our sector. At the heart of it is improved employee performance. Confident employees make happy employees. Investing in skills means that we create a sector where people have confidence in their abilities.

"As the industry association for the fibre optic infrastructure sector, we could not stress enough, the importance of ensuring that staff were qualified and had the necessary skills to deploy the networks that are supposed to serve us for decades to come."

Juanita Clarke: CEO of The Digital Council of Africa

At Digital Council Africa, we believe that skills development is the corner-stone and a critical driver of progress in our sector. At the core, it's about enhancing employee performance. Confident employees are happy employees. By investing in skills development, we're building a sector where individuals are empowered and capable within their roles.

Product and skills training equips employees with the necessary skills and knowledge to perform their jobs more effectively and efficiently, leading to increased productivity and output.

Another aspect in our sector that is critically important is reduced errors and well-trained employees who are equipped to handle faults, reduce errors and minimise costly mistakes, ensuring better network uptime.

However, things in the optic fibre network installation sector do go wrong, however, better-trained staff deliver faster fault finding and problem resolution - resulting in the speedy resolve of issues and ultimately improved customer satisfaction and better quality of network installation.

FOUNDING Digital Council MEMBER

All of these efforts have been important to the Digital Council Africa as we build the Fibre Brand Loyalty. We strive to build and increased consumer trust in FTTx, as we build confidence in the technology.

We know that building good quality networks start with having a well skilled team that understands their product and have the necessary ability for deployment, all of which turns consumers into loyal customers who feel well-served and have a positive experience with the technology and the individual installing the product.

It gives me great pleasure to wish the IC Logistix' team all the very best on this journey as they take up the baton to train, teach and empower the sector because they understand the value of this urgent task at hand.

I have no doubt that they will tackle this project with as much passion as they have done anything else for this sector.

Training Accreditation

QTCO ACCREDITED

The Quality Council for Trades and Occupations (QCTO) is a Quality Council established in 2010 in terms of the Skills Development Act Nr. 97 of 1998.
Its role is to oversee the design, implementation, assessment and certification of occupational qualifications, including trades, on the Occupational Qualifications Sub-Framework (OQSF).

The QCTO also offers guidance to skills development providers who must be accredited by the QCTO to offer occupational qualifications.

QTCO's mission is to effectively and efficiently manage the OQSF in order to set standards, develop and quality assure national occupational qualifications for all who want a trade or occupation and, where appropriate, professions.

In summary, the QCTO is responsible for the following:

- Occupational Qualifications development and maintenance.
- Assessment.
- Certification
- Accreditation of Skills Development Providers.
- Research and Knowledge Development.
- Accreditation of Assessment Centres.
- Stakeholder Management and Advocacy.

mictseta ACCREDITED

QCTO
Quality Council for Trades & Occupations

"Education is the most powerful weapon which you can use to change the world."

Nelson Mandela

ICL YUSHU ACADEMY
SPECIALISED TECHNOLOGY SOLUTIONS

Meet the Team

ZACH YACUMAKIS

CEO of IC Logistix and Yushu Academy

Mr. Zach Yacumakis is the CEO of IC Logistix. With over 30 years in the information and communications industry, Zach has developed specialised proficiency in world renowned fibre optic equipment brands and distribution. As CEO at IC LOGISTIX, he leads a dynamic team, with a focus on innovation and excellence.

JABU MDAKA

Dean of Students and Senior Trainer

Mr. Jabu Jabulani Mdaka is an experienced facilitator, assessor and moderator. He is registered with MICT SETA and has accumulated over 30 years of expertise in telecommunications training and skills development.

His extensive knowledge and hands-on experience make him a highly respected authority in telecommunications training, particularly in optical fibre technology and regulatory frameworks.

Senior Trainer

Meet the Dean of Students

JABU MDAKA

Jabu Jabulani Mdaka is a seasoned facilitator, assessor and moderator of training initiatives, registered with MICT SETA. With over three decades of experience in telecommunications training and skills development, he brings a wealth of expertise to IC Logistix's training initiatives.

PROFESSIONAL BACKGROUND.

Jabu began his career in 1990 as a field technician at Telkom SA, specialising in the installation and maintenance of telecommuni cations cables. In 1996, he transitioned into training, joining the Telkom Centre for Learning, where he played a key role in developing technical skills within the industry until 2013.

Following his tenure at Telkom, Jabu expanded his expertise as an independent telecommunications trainer, delivering specialised training programs across multiple countries in Africa and beyond.

His focus areas include optical fibre technologies, telecommunications policies and regulations, psychology, criminology and law - equipping professionals with the knowledge required to navigate the evolving industry landscape.

PROFESSIONAL ROLE AT ICL YUSHU ACADEMY.

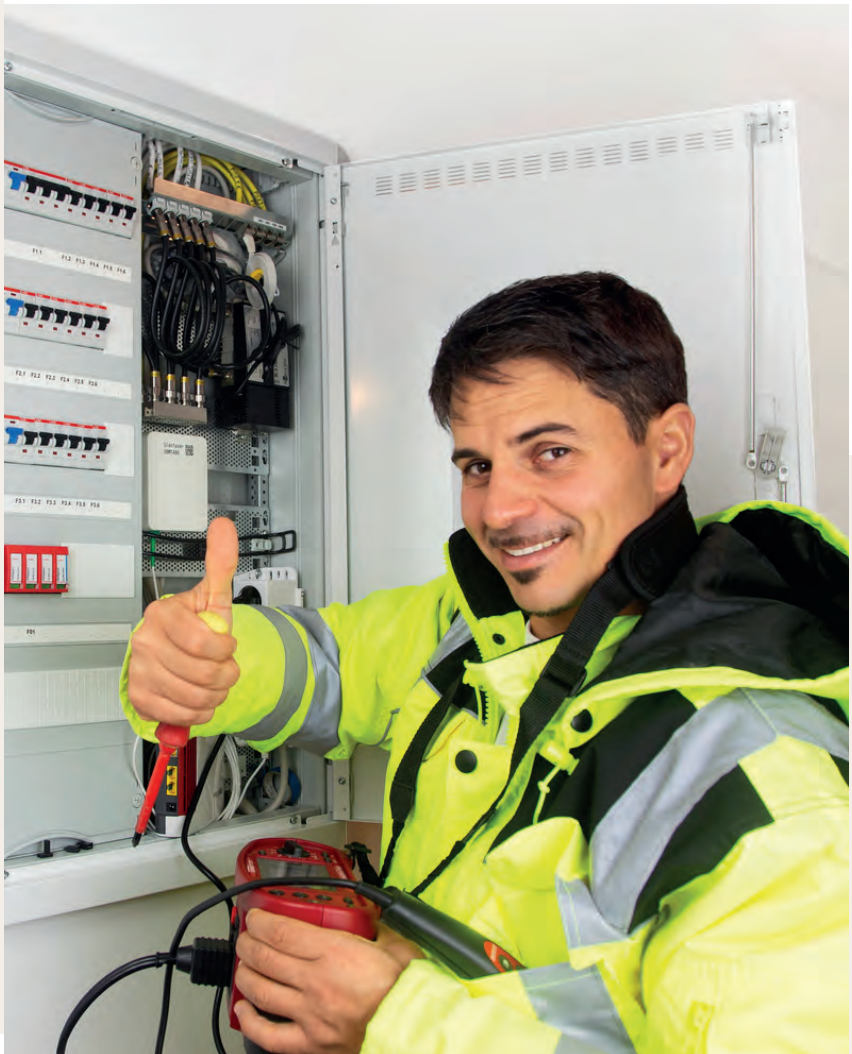
Jabu holds multiple academic and industry-specific qualifications. His extensive knowledge and hands-on experience make him a highly respected authority in telecommunications training, particularly in optical fibre technology and regulatory frameworks.

- Telecommunications Certificate from the Telkom College South Africa.
- Telecommunications Diploma for Technicians from the Penn Foster Career College.
- Diploma in Human Resource Management from the Business Management Training ·College.
- Certificate in Training and Development from the University of Johannesburg (Formerly RAU).
- Master Certificate in Training and Development from the University of Johannesburg ·(Formerly RAU).
- Assessment Certificate from the Assessment College of South Africa.
- Moderation Certificate from the Quality Executive Development (QED).
- Higher Certificate in Law from UNISA.
- Bachelor of Arts in Criminology from UNISA.
- Telecommunications Policy, Regulation and Management Certificate.
- Current - Bachelor of Laws (LLB) UNISA.

How Will These Courses Support Our Growth and Success

CERTIFIED. SKILLED. READY. MEETING AFRICA'S TECHNICAL DEMANDS.

The demand for qualified fibre optic installation technicians is rising across Africa due to major infrastructure projects aimed at expanding digital connectivity (Vanassche, 2025). Read more about the article here.



Key factors driving this demand include rapid digital infrastructure growth, urban-rural connectivity gaps, economic development, government initiatives and the need for reliable networks. Expanding mobile networks, technological advancements and smart city projects further contribute to the need for trained technicians. However, a skills shortage remains a challenge, making training programs essential for workforce development.

YUSHU ACADEMY'S ROLE IN THE SOLUTION

By addressing these needs, trained fibre optic technicians will play a crucial role in modernising Africa's telecommunications infrastructure and bridging the digital divide, fostering job creation and economic empowerment.

Location

Academy Premises

ICL YUSHU ACADEMY is based in Ferndale, Randburg, South Africa, 2194. Latitude: -26.0936° Longitude: 28.0064°.

The Academy is based at 345 Main Avenue, Gauteng within the same office park as IC Logistix.

IC Logistix's office park is situated roughly within 45 minutes drive from both Lanseria and O.R. Tambo International Airports. The Gautrain railway service travels directly from O.R. Tambo International airport to Sandton Gautrain railway station in Sandton - the closest station to the Training Academy.

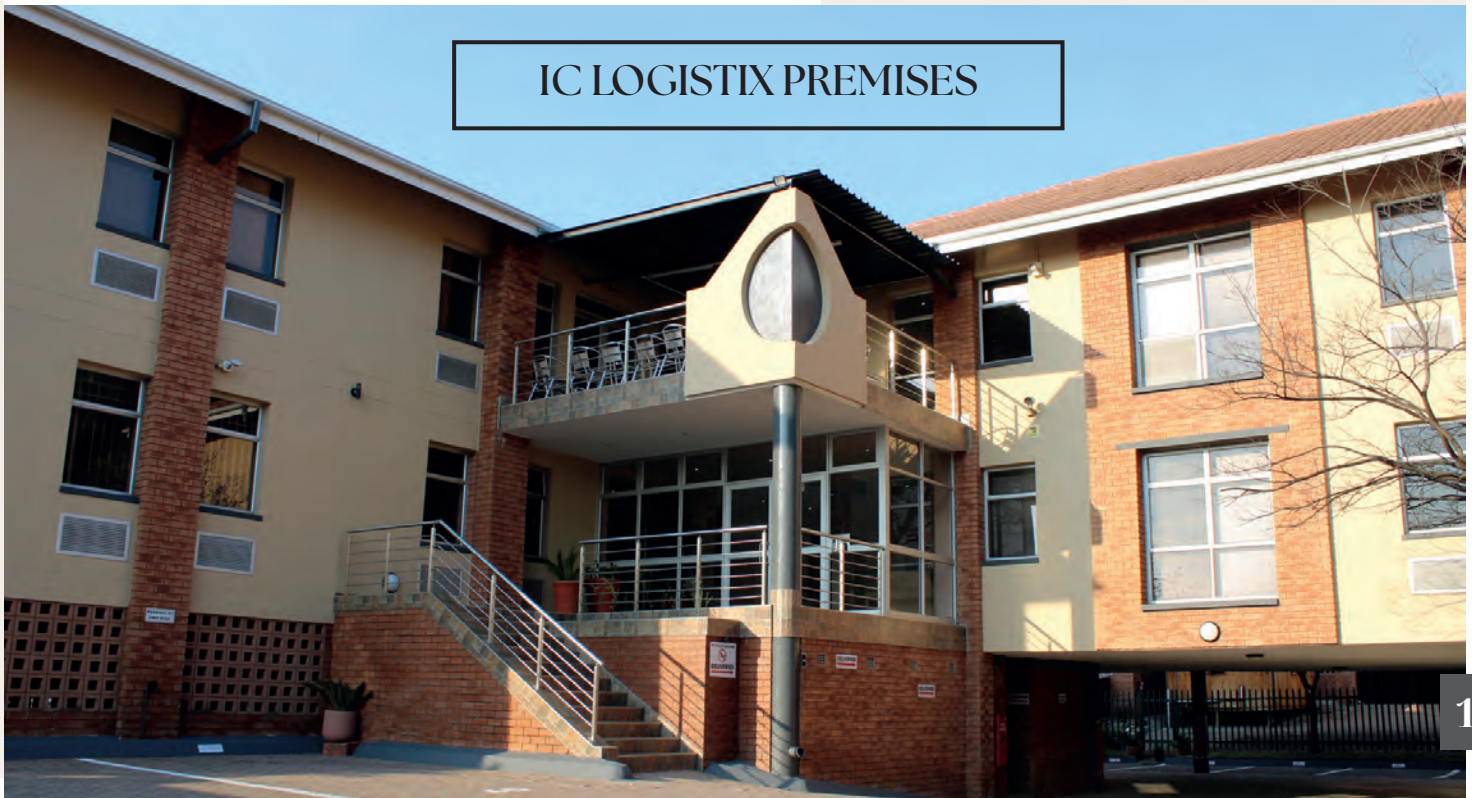
Gautrain also offers bus services from the railway station to a main road within 1.5 km from the office park. Ubering from the Gautrain station is also an option for independent transport.

A variety of car hire services are also at O.R. Tambo International Airport.

FACT

Our office is conveniently located in a central business hub of Randburg, offering easy access from major roads and public transport routes, with ample secure parking available for visitors.

IC LOGISTIX PREMISES



General Course Information

TRAINING

YUSHU ACADEMY provides students with access to a dedicated training auditorium, complete with prepared study materials, writing supplies and a fully equipped practical area featuring industry-grade equipment.

REFRESHMENTS

Complimentary tea, coffee and water will be available throughout the course. A light lunch will be provided daily.

Please inform us in advance of any dietary restrictions or special requirements.

METHOD OF TRAINING

Our courses combine comprehensive theoretical instruction with hands-on practical application. The practical component offers direct experience in fibre network construction and OTDR fault-finding, using a variety of industry-standard equipment.

Training on Offer

Courses On Offer

FOTT / CFOT

5 DAYS / 10 DAYS

BASIC FOTT / CFOT
ADVANCED FOTT / CFOT

FIBRE OPTIC TECHNICIAN TRAINING / CERTIFIED FIBRE OPTIC TECHNICIAN COURSE

This training is designed to equip individuals with essential skills and knowledge needed to navigate the field of Fibre Optics installation and maintenance.

AFFC

3 DAYS

ADVANCED FAULT FINDING (OTDR) COURSE

The Advanced Fault Finding (OTDR Training) course is designed for professionals in the telecommunications field who are looking to elevate their skills in diagnosing and troubleshooting fibre optic network faults.

SA

1 DAY

SKILLS ASSESSMENT

The Skills Assessment is designed for individuals and organisations wishing to assess current staff or hire new staff to assess theoretical and practical proficiency. Based on the outcome, a practical report on any areas in need of improvement will be issued.

RCSM

1 DAY

RIBBON CABLE SPLICING MASTERY

This course introduces students to practical, hands-on ribbon splicing application and offers them the opportunity to practice on the Fujikura 90R Ribbon Splicing Machine.

Training on Offer

Courses On Offer

FOTT / CFOT

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Training on Offer

Courses On Offer

FONPP
4 DAYS

FIBRE OPTIC NETWORK PLANNING PRINCIPLES

This training provides students with a comprehensive introduction to fibre optic technology, covering network design, equipment, infrastructure planning, stakeholder coordination, and practical deployment strategies.

OSP
4 DAYS

OSP OUTSIDE PLANT CIVIL WORKS

This training course is designed to provide students with comprehensive knowledge of the key requirements involved in the construction of Fibre Optic Outside Plant (OSP) Networks.

RAW
5 DAYS

INTRODUCTION TO RADIO AND WIRELESS COMMUNICATION

This training is designed to equip participants with the knowledge and practical skills necessary to understand, design, operate and troubleshoot wireless communication systems.

GSGD
2 DAYS

CONFINED SPACE GAS DETECTION

This training is designed to equip participants with the essential knowledge and practical skills needed to safely identify and manage hazardous gases in confined spaces.

Training on Offer

Courses On Offer

LAPS
2 DAYS

LADDER AND POLE SAFETY

This training is designed to equip participants with the necessary knowledge and skills required to understand and apply safety protocol and learn proper inspection techniques when using ladders to climb poles.

WAH
2 DAYS

WORKING AT HEIGHTS

This course is for students who are capable of working safely in contexts that involve heights and are aware of the risks, safeguards and legal requirements associated with doing so.

ECCP
3 DAYS

ELECTRONIC COMMUNICATION AND CONSUMER PROTECTION

This training is designed to equip participants with a thorough understanding of the principles and practices that govern electronic communication and the rights of consumers in the digital landscape.

ICTPR
3 DAYS

ICT POLICY AND REGULATIONS

This course is designed to provide participants with a comprehensive understanding of the frameworks that govern the information and communication technology sector.

Training on Offer

Courses On Offer

OCPC
3 DAYS

ONLINE CHILD PROTECTION COURSE

The OCPC course is designed to raise awareness and provide essential knowledge for individuals seeking to safeguard children in the digital environment.

IDTC
5 DAYS

IDENTITY THEFT COURSE

The ITC course is designed to provide participants with a comprehensive understanding of identity theft, its implications and the preventive measures one can take to protect personal information

CUS
TBA

CUSTOMISED TRAINING TO SUIT THE STUDENT

The Custom Course module offers a unique opportunity for participants to tailor their learning experience by selecting a combination of topics from our diverse range of courses.

PM
20 DAYS

PACKAGE MODULES

The Package Modules (PM) are tailored as a Skills Development Program to introduce young individuals from different fields of study, who want to pursue a career within the telecommunications industry.

Course Prerequisites

Student Requirements

1. Technical Skills and Knowledge.

- A basic knowledge of electronics, telecommunications and networking is advantageous but not mandatory.
- Familiarity with cabling or networking technologies is an advantage.

2. Physical Requirements.

- Ability to work in physically demanding conditions, including climbing, lifting and working in confined spaces or outdoor environments.

3. Language Proficiency.

- Proficiency in English (spoken and written) is preferred, as training materials and communication will be in English.
- An interpreter can be arranged for required languages. (An additional cost will apply.)

4. Application Documents.

- Completed application form.
- Proof of identity (e.g., ID or passport).
- FOTT/CFOT or similar required to attend the Advanced Fault Finding (OTDR) Course.
  (Please submit your certificate with the application form).
- Updated resume (if available).

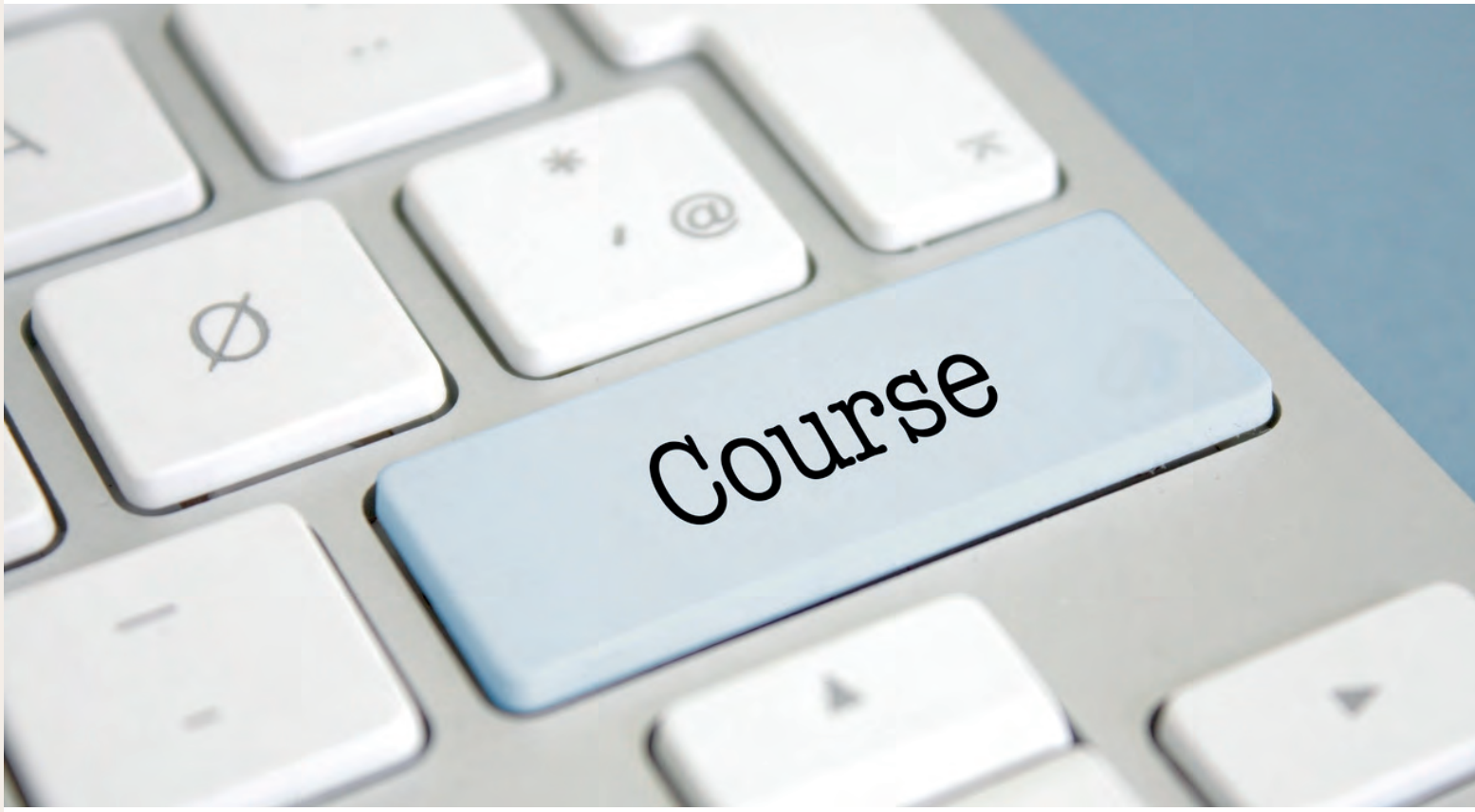
5. Additional Skills.

- Computer literacy (basic level – MS Office, etc. is compulsory).
- Prior experience in technical fields such as cabling, IT or electronics is a requirement.

For non English speaking students who require training in another language, arrangements for a translator can be facilitated at an additional cost.

Detailed Training Information

Comprehensive Courses



This section covers a comprehensive list of YUSHU ACADEMY'S courses on offer.

Each course is overviewed with detailed content, including the duration and skill level recommendation.

Should you require more information about any of the courses, email our team at training@icl.co.za.

Comprehensive Courses

Optic Fibre Courses

FOTT / CFOT
FIBRE OPTIC TECHNICIAN TRAINING / CERTIFIED FIBRE OPTIC TECHNICIAN

The Fibre Optic Technician Training (FOTT / CFOT) course is designed to equip individuals with the essential skills and knowledge needed to navigate the field of fibre optics installation, maintenance and repairs.

Throughout the programme, participants will learn about fibre optic installation, maintenance and repair techniques through a blend of theoretical understanding and practical application. By the end of the course, trainees will be proficient in handling various fibre optic tools and equipment, adhering to industry standards and safety protocols.

Whether you're looking to start a new career or enhance your technical skills, the FOTT / CFOT course provides a solid foundation for success in the telecommunications sector.

DURATION

BASIC -	05 Days for the Basic FOTT / CFOT Course.
ADVANCED -	10 Days for the Advanced FOTT / CFOT Course, including Advanced Fault Finding.

COURSE CONTENT:

1. **FIBRE OPTICS:**
   - Introduction to Fibre Optics.
   - Identifying the benefits of optical fibre as a medium of transmission.
   - Differentiate the types of optical fibres and their characteristics.
   - Understand the optical fibre communication system and its components.
   - Recognise the types of fibre optic modes of transmission (single and multi-modes) including their characteristics.

Optic Fibre Courses

FOTT / CFOT
FIBRE OPTIC TECHNICIAN TRAINING / CERTIFIED FIBRE OPTIC TECHNICIAN

2. FIELD CONNECTORS:

- Splice-on connectors.
- Mechanical connectors.

SPLICING:

- Cable-end preparation.
- Enclosures preparation.
- Cables and buffer-tube attachments.
- Optic fibre splicing.
- Optic fibre and buffer tube coiling.
- Splice tray attachment.
- Enclosure finishing.
- Ribbon Cable Splicing.
- Field Connectorisation.
- Specialised installation tools.

3. TESTING:

- Correctly setting an OTDR machine for performance.
- Trace, analyse and interpret events.
- Create files names and store OTDR traces.
- Utilise the Visual Fault Locator (VFL).

4. EQUIPMENT:

- Arc calibration.
- Maintenance of splicer and battery.
- Field diagnostics and troubleshooting.
- Annual service.
- Equipment repairs Q&A.

Comprehensive Courses

Optic Fibre Courses

AFFC
ADVANCED FAULT FINDING (OTDR) COURSE

The Advanced Fault Finding course (AFFC) is designed for professionals in the telecommunications field who are looking to elevate their skills in diagnosing and troubleshooting fibre optic network faults.

This comprehensive program focuses on the effective use of Optical Time Domain Reflectometer (OTDR) technology, enabling participants to accurately analyse and interpret OTDR readings for fault detection and management. Through a blend of theoretical knowledge and hands-on training, attendees will learn advanced techniques for locating and resolving issues within fibre optic installations, ensuring network reliability and performance.

By the end of the course, participants will possess the expertise needed to tackle complex fault scenarios and maintain the integrity of fibre optic systems with confidence. Enhance your technical capabilities and become an invaluable resource in the world of fibre optics with this specialiesd training.

DURATION

3 Days

ADDITIONAL EDUCATIONAL PREREQUISITES:

- Module 1 or similar certificate required.
- Basic computer skills required. (MS-Office, etc.)
- Correctly setting an OTDR machine for performance.
- Trace, analyse and interpret events.
- Create files names and store OTDR traces.
- Utilise the Visual Fault Locator (VFL).

Comprehensive Courses

Skills Assessment

SA
SKILLS ASSESSMENT FOR THEORY AND PRACTICAL PROFICIENCY

At ICL YUSHU ACADEMY, we are proud to offer a fibre optic technician Skills and Theory Assessment designed to evaluate both the practical knowledge and theoretical understanding of individuals working in the fibre optics and copper networking sectors. This assessment provides a valuable benchmark for students completing our training programs, allowing them to measure their learning progress and technical competency in real-world scenarios.

It also serves as a critical tool for companies onboarding new hires, helping employers verify skill levels before deployment to the field. By simulating job-relevant challenges, the assessment reveals how well participants grasp core concepts and apply diagnostic techniques under pressure.

This evaluation process is essential in an industry where precision and efficiency directly impact project success and service quality. Misdiagnosing faults or lacking confidence in troubleshooting can lead to costly delays and dissatisfied clients. Our assessment not only identifies knowledge gaps but also includes personalised feedback and recommendations for further development.

This enables individuals to target specific areas for improvement and helps companies structure more effective training plans. Ultimately, our goal is to raise the standard of technical excellence in the field, ensuring that both new and experienced technicians are well-equipped to meet industry demands.

DURATION

1 Day

Comprehensive Courses

Optic Fibre Courses

RCSM
RIBBON CABLE SPLICING MASTERY

Students enrolled in the RCSM training program will gain the essential skills and knowledge required to perform the joining of Ribbon Fibres in the field. This specialised course is designed for experienced technicians who are looking to expand their expertise in optical fibre ribbon splicing.

This training entails a comprehensive understanding of the fundamentals of fibre optics, with a particular focus on the construction and function of ribbon fibres. They will learn to use the essential tools and techniques required for efficient and effective splicing of ribbon fibre optic cables.

Through hands-on training with state-of-the-art splicing equipment, students will master the process of preparing, aligning, and fusing optical ribbon fibres. The course also equips them to identify and troubleshoot common splicing issues, ensuring optimal performance and reliability. Additionally, participants will explore the latest industry standards and best practices in fibre optic ribbon cable splicing.

DURATION

1 Day

COURSE CONTENT:

1. **RIBBON FIBRE TECHNOLOGY:**
   - Structure and advantages of ribbon fibres.
   - Differences between ribbon and single fibre splicing.

2. **TOOLS AND EQUIPMENT:**
   - Overview of essential splicing tools.
   - Introduction to ribbon splicing equipment.

Comprehensive Courses

Optic Fibre Courses

RCSM
RIBBON CABLE SPLICING MASTERY

3. **TOOLS AND EQUIPMENT:**
   - Tools and Equipment.
   - Overview of essential splicing tools.
   - Introduction to ribbon splicing equipment.

4. **SPLICING TECHNIQUES:**
   - Step-by-step guide to ribbon splicing.
   - Hands-on practice sessions.

5. **TROUBLESHOOTING AND MAINTENANCE:**
   - Common splicing errors and how to fix them.
   - Regular maintenance practices for long-term splicing success.

6. **INDUSTRY STANDARDS AND SAFETY:**
   - Review of relevant standards and regulations.
   - Ensuring safety during splicing operations.

By the end of this course, students will be equipped with valuable skills and practical experience that will enhance their skill set in the fibre optics industry. Join us at ICL YUSHU ACADEMY to advance your technical skills and become a proficient fibre optic ribbon splicing technician.

Comprehensive Courses

Optic Fibre Courses

FONPP
FIBRE OPTIC NETWORK PLANNING PRINCIPLES

This course provides students with a comprehensive introduction to fibre optic technology, covering network design, equipment, infrastructure planning, stakeholder coordination, and practical deployment strategies for effective fibre optic network implementation.

DURATION

4 Days

COURSE CONTENT:

1. **INTRODUCTION:**
   - Overview of fibre optic technology.
   - Benefits of fibre optics over copper networks.
   - Fibre Optic Applications.
   - Types of Optical fibre.

2. **CONSIDERATIONS FOR NETWORK DESIGN:**
   - Core, Metro, and Access Networks (FTTH, FTTC, FTTB).
   - Passive Optical Networks (PON) vs. Active Optical Networks (AON).
   - Key design constraints: Distance, capacity, redundancy.

3. **EQUIPMENT AND COMPONENTS FOR FIBRE OPTICS:**
   - Optical Fibre cable types and selection.
   - Splicing techniques and termination.
   - Basic Fibre Optic Network Components.

4. **INFRASTRUCTURE AND ROUTE PLANNING:**
   - Surveying and feasibility study.
   - Wayleave Applications (RoW).
   - Aerial vs. Underground installation.

Comprehensive Courses

Optic Fibre Courses

FONPP
FIBRE OPTIC NETWORK PLANNING PRINCIPLES

DURATION

4 Days

5. **CO-ORDINATING WITH OTHERS:**
   - Building Engineers and Construction Personnel.
   - Communicating with Clients.
   - Suppliers of equipment.

6. **STRATEGIES FOR NETWORK DEPLOYMENT:**
   - Trenching, micro-trenching, and drilling techniques.
   - Cable pulling, blowing, and installation best practices Manhole, duct and pole planning.
   - Safety and environmental considerations.

Optic Fibre Courses

OSP
OUTSIDE PLANT CIVIL WORKS

The Fibre Optic Outside Plant (OSP) course is designed for professionals seeking to understand the planning, installation and maintenance of fibre optic networks in outdoor environments.

This course covers essential topics such as site assessment, trenching, cabling techniques and adherence to safety standards, specific to outdoor installations. Participants will gain hands-on experience with various installation methods, cable types and protective measures necessary for ensuring the longevity and reliability of outdoor fibre optic systems.

By the end of the course, attendees will be equipped with the skills and knowledge to effectively manage fibre optic projects in outside plant applications, positioning themselves as competent professionals in the rapidly evolving telecommunications industry.

Enhance your understanding of OSP components and practices and contribute to the growth of fibre optic infrastructure.

DURATION

4 Days

COURSE CONTENT:

- Wayleave applications.
- Pre-build surveying.
- Trenching methods.
- Ducting.
- Backfilling.
- Cable hauling.

Comprehensive Courses

Radio and Wireless

RAW
INTRODUCTION TO RADIO AND WIRELESS COMMUNICATION

The Introduction to the RAW course is designed for individuals who wish to gain a foundational understanding of wireless communication technologies.

This course covers key concepts such as the principles of radio wave propagation, modulation techniques and the different types of wireless communication systems, including cellular networks, satellite communication and Wi-Fi. Participants will explore the applications and challenges of wireless technology in today's connected world.

Through a mix of theoretical insights and practical examples, students will develop the necessary skills to comprehend the operation of wireless communication systems and their impact on modern communication. Whether you're looking to start a career in telecommunications or simply want to expand your knowledge, this course provides an excellent entry point into the dynamic field of radio and wireless communication.

DURATION

1 Day

COURSE CONTENT:

- Wireless communication overview.
- Fixed and mobile wireless.
- Types of wireless communication technologies.
- Wireless customer premises equipment (CPE's).
- Installation methods and procedures.
- Safety, health and environmental working specifications.

Comprehensive Courses

Health and Safety

CSGD
CONFINED SPACE GAS DETECTION

The CSGD course is designed to equip participants with the essential knowledge and practical skills needed to safely identify and manage hazardous gases in confined spaces.

This course covers key topics such as the types of gases commonly found in confined environments, the importance of gas detection and the use of various gas detection instruments. Participants will learn how to conduct effective risk assessments, interpret gas readings and implement safety protocols to protect themselves, their teams and the people around them.

Through hands-on training and real-world scenarios, attendees will gain the confidence to operate gas detection equipment and respond effectively to potential gas-related hazards. Whether you are a safety professional, industrial worker, or emergency responder, this course is vital for ensuring safety and compliance when working in confined spaces.

DURATION

2 Days

COURSE CONTENT:

1. **INTRODUCTION TO CONFINED SPACES:**
   - Definition of a confined space.
   - Common hazards associated with confined spaces.
   - Legal and regulatory requirements (e.g., OSHA, HSE, AS/NZS standards).
   - Responsibilities of workers and employers.

2. **ATMOSPHERIC HAZARDS IN CONFINED SPACES:**
   - Types of hazardous gases (toxic, flammable, oxygen-deficient).
   - Sources of gas accumulation.
   - Effects of hazardous gases on human health.

Health and Safety

CSGD
CONFINED SPACE GAS DETECTION

3. GAS DETECTION PRINCIPLES:

- Understanding air composition and gas behaviour.
- Gas concentration measurement units (PPM, LEL, % volume).
- Lower Explosive Limit (LEL) and Upper Explosive Limit (UEL).
- Oxygen levels and the importance of maintaining safe ranges.

4. GAS DETECTION EQUIPMENT:

- Types of gas detectors (single-gas, multi-gas, fixed, portable).
- Proper use and maintenance of gas detectors.

5. CONFINED SPACE ENTRY PROCEDURES:

- Pre-entry risk assessment and hazard identification.
- Permit-to-work system.
- Ventilation techniques.

6. PRACTICAL TRAINING AND HANDS-ON EXERCISES:

- Proper use of gas detection equipment.
- Conducting atmospheric testing before entry.
- Interpreting gas readings and taking appropriate action

Comprehensive Courses

Health and Safety

LAPS
LADDER AND POLE SAFETY

The LAPS course is designed to equip participants with the necessary knowledge and skills required to understand and apply safety protocol and learn proper inspection techniques when using ladders to climb poles.

This training is designed to equip participants with the essential knowledge and practical skills required to safely and effectively use ladders when climbing poles. It emphasises the importance of following industry safety protocols, ensuring that participants understand how to assess risks, select the appropriate equipment, and carry out inspections before and after use.

Proper ladder handling, positioning, and climbing techniques are also covered, helping to prevent accidents and injuries on site. By instilling these practices, the training supports a culture of safety and professionalism in environments where working at height is part of the role.

DURATION

2 Days

COURSE CONTENT:

1. INTRODUCTION TO POLE AND LADDER SAFETY:

- Importance of pole and ladder safety.
- Ladder associated hazards and injury statistics.
- Hazard Identification and Risk Assessment.
- Carrying and Transporting the Ladder.
- Personal Protective Equipment (PPE).
- Ladder Types and Selection.
- Ladder and Pole Inspection.

Comprehensive Courses

Health and Safety

WAH
WORKING AT HEIGHTS

The Working at Heights training course (WAH), is intended to ensure that participants are capable of working safely in contexts that involve heights and are aware of the risks, safeguards, and legal requirements associated with doing so.

DURATION

2 Days

COURSE CONTENT:

- What is working at heights?
- General safety regulations.
- The hierarchy of working at heights.
- Necessary precautions to take.
- Proper planning and organising for working at heights.
- Weather conditions.
- Minimising the consequences of a fall.
- Risk assessment management.
- Planning process in preparation for work in elevated positions.
- Access materials.

By the end of the course, students will have an understanding of necessary height precautions, emphasising the significance of thorough planning and organisation before commencing any elevated work. It also explores the impact of weather conditions on safety and how to minimise the consequences of a fall through the use of fall arrest systems and other protective measures.

Comprehensive Courses

Health and Safety

ECCP
ELECTRONIC COMMUNICATION AND CONSUMER PROTECTION

The ECCP course is designed to equip participants with a thorough understanding of the principles and practices that govern electronic communication and the rights of consumers in the digital landscape.

This course covers essential topics such as data privacy, digital marketing regulations, consumer rights and the impact of electronic communication on consumer behaviour. Participants will explore the legal frameworks and best practices that ensure consumer protection in various electronic channels, including e-commerce, social media and mobile communications.

Through engaging discussions and real-world case studies, attendees will gain valuable insights into the challenges and opportunities in promoting safe and fair practices for consumers. Whether you're a professional in the field of communications or a consumer advocate, this course will enhance your knowledge and skills in navigating the intersection of technology and consumer rights.

DURATION

2 Days

COURSE CONTENT:

- Electronic communication as a new way to communicate.
- The benefits of electronic communication.
- Regulatory framework for electronic communication.
- E-commerce/e-consumer protection issues.
- Online contracting and limitations.
- Best practice models for e-consumer protection.

Comprehensive Courses

Regulatory

ICTPR
ICT POLICY AND REGUATIONS

The ICT Policy and Regulations course is designed to provide participants with a comprehensive understanding of the frameworks that govern the information and communication technology sector.

This course covers key topics such as regulatory policies, legal considerations and the impact of ICT on society and the economy. Participants will explore the roles of government and regulatory bodies in shaping ICT policies, as well as the challenges and opportunities presented by emerging technologies. Through discussions, case studies and practical examples, attendees will develop the skills to analyse, design and implement effective ICT policies that promote innovation, competition and consumer protection.

Whether you are a professional in the ICT field or an individual interested in the regulatory landscape, this course will equip you with valuable insights into the complex interplay between technology, policy and regulation.

DURATION

5 Days.

COURSE CONTENT:

- Telecommunications regulatory objectives.
- Dimensions of regulatory effectiveness.
- Licensing objectives, processes and practices.
- Interconnection principles.
- Universal access and universal services.
- Spectrum management.
- Concepts of competition policies.

Comprehensive Courses

Protection & Welfare

OCPC
ONLINE CHILD PROTECTION COURSE

The OCPC course is designed to raise awareness and provide essential knowledge for individuals seeking to safeguard children in the digital environment.

As the internet offers both opportunities and risks for young users, this course addresses key issues such as online safety, cyberbullying, digital footprints and the potential dangers posed by online predators. Participants will learn about best practices for protecting children, including recognising signs of online exploitation and implementing effective strategies for safe internet usage.

Blending theoretical insights and practical guidance, this course will empower parents, educators and professionals to create a safer online experience for children and promote responsible digital citizenship. Join us in this vital initiative to ensure the well-being of children in an increasingly connected world.

DURATION

5 Days

COURSE CONTENT:

- Who is a child?
- Use of the internet by children.
- Online risks for children.
- Internet technology risks.
- Consumer-related risks.
- Information privacy and security risks.
- Policy measures to protect children online.

Comprehensive Courses

Protection & Welfare

IDTC
IDENTITY THEFT COURSE:

The IDTC course is designed to provide participants with a comprehensive understanding of identity theft, its implications and the preventive measures one can take to protect personal information.

This course covers critical topics such as the techniques used by identity thieves, the impact of identity theft on individuals and organizations and the legal frameworks surrounding identity protection. Participants will learn practical strategies for safeguarding their identities in both digital and physical environments, recognising warning signs of identity theft and responding effectively if their identity is compromised.

Through engaging discussions, case studies and actionable tips, this course equips individuals with the knowledge and tools necessary to navigate the challenges of identity theft and enhance their personal security in today's interconnected world.

DURATION

5 Days

COURSE CONTENT:

- What is identity?
- Types of identity theft.
- Techniques of identity theft.
- Individual identity protection.
- Identity theft victims.
- The impact of identity theft.
- Identity authentication.
- Tips to avoid identity theft.

Comprehensive Courses

Customised

CUS
CUSTOMISED TRAINING TO SUIT THE STUDENT

The CUS Module offers a unique opportunity for participants to tailor their learning experience by selecting a combination of topics from our diverse range of courses.

Whether you're interested in integrating elements of fibre optics, telecommunications, online safety, or regulatory compliance, this module allows for a personalised approach to training that addresses specific industry needs or personal interests.

Participants can collaborate with instructors to create a curriculum that fits their objectives, ensuring relevance and practicality in today's fast-paced environment. Ideal for organisations seeking targeted training solutions or individuals wishing to deepen their expertise in particular areas, the Custom Course Module empowers learners to take charge of their educational journey and acquire the skills needed to thrive in their respective fields.

Any additional education prerequisites will be advised where necessary.

DURATION

TBA

Comprehensive Courses

Package Options

PM
PACKAGE MODULES

The Package Modules are tailored as a Skills Development Program to introduce young individuals, mostly unemployed graduates from different fields of study, who want to pursue a career within the telecommunication industry.

DURATION

20 Days

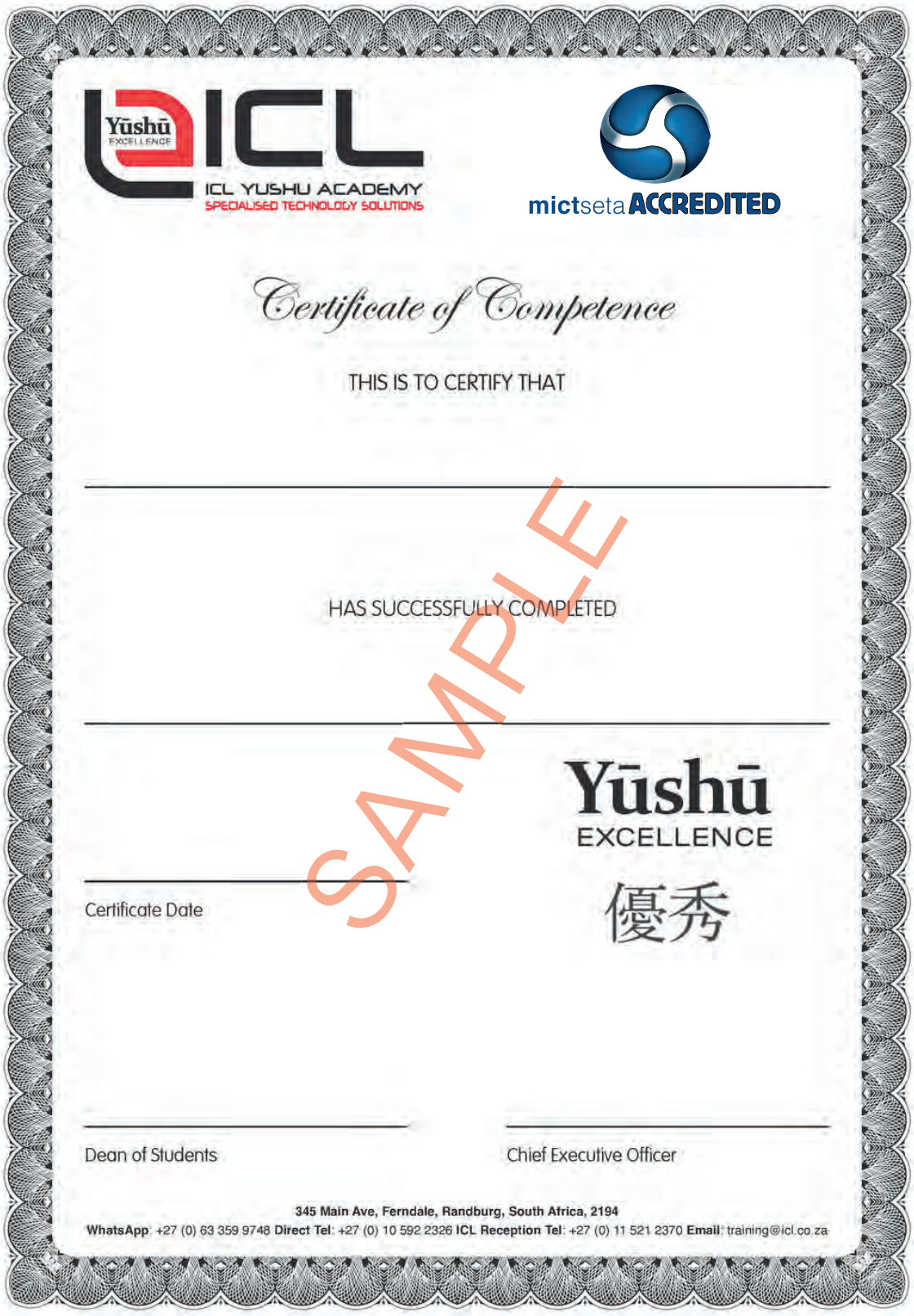
COURSE CONTENT:

- Fibre optic technician training with advanced testing.
- Fibre optic network planning principles.
- Fibre optic outside plant.
- Introduction to radio and wireless communication.

Certificate Issue

Course Certification

Upon grading student's theory and practical section of the course a certificate of competence will be issued to the students.



Payment Terms

Financial Details

Selected courses will be required to be paid in full, or a PO raised for account customers before commencement of the course/s begin. Upon payment receipt, YUSHU ACADEMY will book your place.

Courses can paid in local ZAR Rands or US Dollar, if payments are from across South African borders. Kindly send your proof of payment to training@icl.co.za.

Kindly note our course payment cancellation policy below.

Cancellation Policy for Payments

All cancellations for bookings are subject to a cancellation fee of 25% of the total payment. This fee is non-refundable and will be deducted from any payments received. The remaining balance, if applicable, will be refunded to the original payment method within a reasonable processing period.

Securing a Course

Banking Details

Course attendance will be confirmed only after full payment has been received.

- Payments can be made via EFT, swift transfer or credit card at our premises.
- National and international payments must be made in advance in either ZAR or USD.

LOCAL BANKING DETAILS: IC LOGISTIX (PTY) LTD. ZAR:

Account Type:	
Bank:	FIRST NATIONAL BANK
Branch Name:	RANDBURG COMMERCIAL SUITE
Branch Code:	254005
Account Type:	ENTERPRISE BUSINESS ACCOUNT
Account Number:	62331716011
Swift Code:	FIRNZAJJ

INTERNATIONAL BANKING DETAILS: IC LOGISTIX (PTY) LTD. USD:

Account Type:	IC LOGISTIX (PTY) LTD
Bank:	INVESTEC BANK LIMITED
Branch Name:	100 GRAYSTON DRIVE, SANDTON, GAUTENG
Branch Code:	580105
Account Type:	CALL ACCOUNT
Account Number:	1300207306501
Swift Code:	IVESZAJJ

The Process

Booking a Course

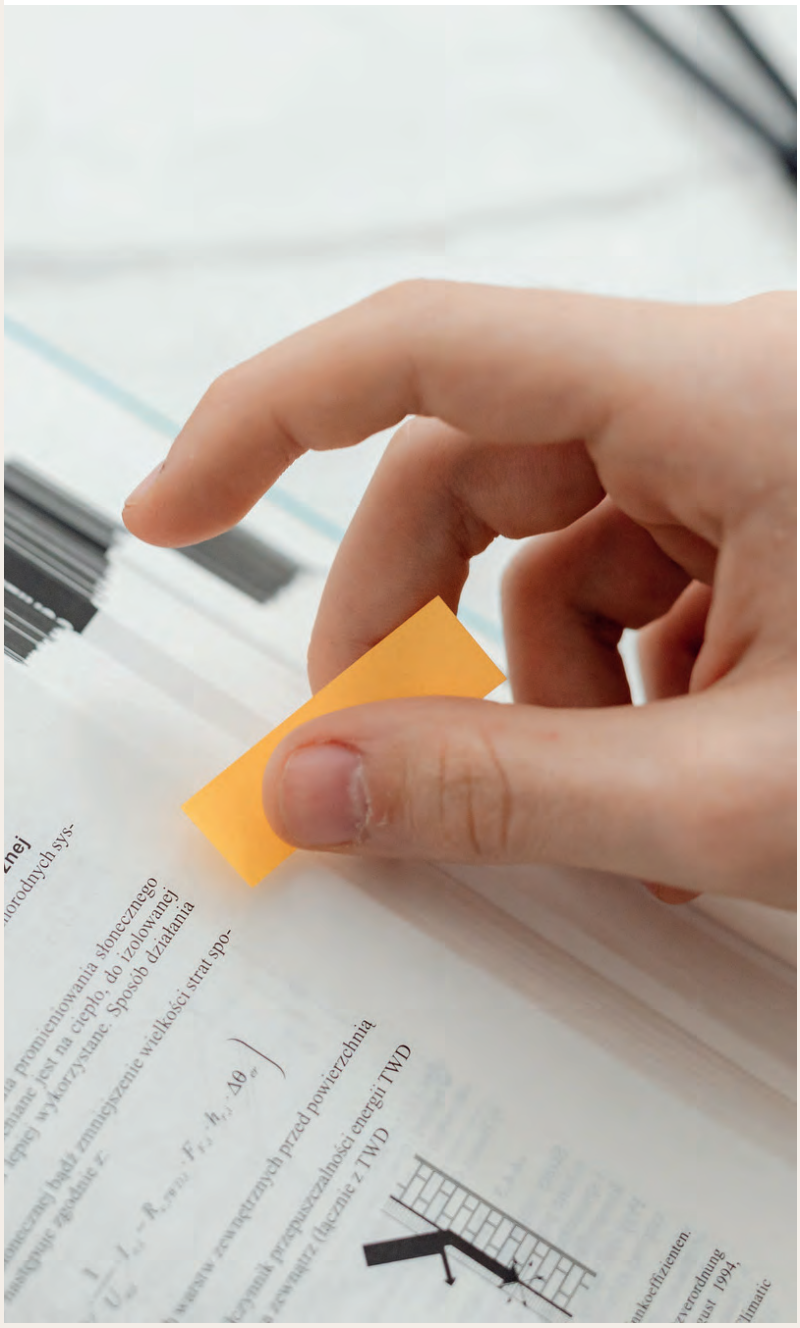
1. SELECTION

After selecting your preferred course, email our team at training@icl.co.za to receive the registration forms.

Completed registration forms can be emailed back to the same address.

2. PAYMENT

Once payment has been received, a booking confirmation will be emailed to you, confirming the course date and your registration.



We kindly request that students inform us of any medical conditions or allergies, including specific food-related allergies or intolerances.

Please note that ICL Yushu Academy does not carry oral medications or EpiPens. Students are advised to bring any necessary personal medications and emergency treatments for potentially life-threatening health conditions.

WELCOME PACK

Upon completion of all paperwork and payment confirmation, students will receive a 'Welcome Pack' containing all the necessary information for attending courses at the Academy.

We encourage both national and international students to read through the relevant information carefully.

Health Disclosure

Health Information Requisition

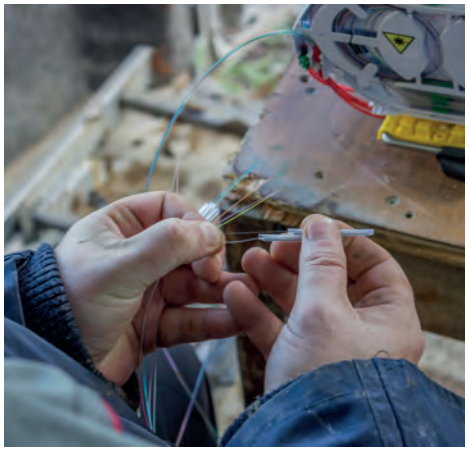
At YUSHU ACADEMY, we'd like to ensure that your training experience with us includes your safety and comfort. In order to provide a quality experience, YUSHU ACADEMY kindly requests our students to highlight any health conditions. Health matters will be handled confidentially and discreetly.

Please let us know if you have any of the following conditions so that we can be prepared to help you in case of an emergency.

- Allergies, especially severe ones like peanuts, bee stings or medication allergies.
- Asthma, in case of needed inhalers or special accommodations.
- Diabetes.
- Epilepsy or seizure disorders. (To prepare for emergency response if a seizure occurs).
- Heart Conditions, like arrhythmias, history of heart attacks, etc.
- Blood Pressure Issues.
- Anxiety disorders or other mental health conditions. (For example, if students are prone to panic attacks).
- Hearing or vision Impairments. Preparation can be made for assistive devices if needed.
- Recent surgeries or Injuries that impact physical limits.
- Medication needs, especially if students need to take something on schedule or emergency meds.

Website Resources

Helpful Resources



The Shortage of Qualified Fibre Optic Technicians

The shortage of qualified fibre optic technicians across the African continent is negatively impacting the expansion of digital infrastructure.

Julia King, An industry short on enthusiasm: Where are all the fibre technicians?, Fierce Network, 18 May 2023. Available at: www.fierce-network.com/broadband/workforce-short-enthusiasm-where-are-all-fiber-technicians (Accessed 14 Aug 2025).

South Africa's Fibre Broadband Industry Is Facing a Worsening Skills Gap.

This talent drain is intensifying the shortage of fibre skills within the country.

Sibahle Malinga, SA's fibre skills gap worsens amid US broadband project, ITWeb, 5 September 2024. Available at: www.itweb.co.za/article/sas-fibre-skills-gap-worsens-amid-us-broadband-project (Accessed 14 August 2025).

How IC Logistix is Contributing To The Solution

IC Logistix is actively bridging the digital divide, fostering job creation and economic empowerment.

Claudia Magon Yacumakis, The Demand for Qualified Optic Fibre Technicians Throughout Africa, LinkedIn, 16 April 2025. Available at: www.linkedin.com/posts/iclogistix_the-demand-for-qualified-optic-fibre-technicians-activity-7318166425494298625-HF8V (Accessed 14 August 2025).

Frequently Asked Questions Answered

Q& A

1 WHO CAN ATTEND YOUR FIBRE OPTIC TRAINING COURSES?

Our courses are open to anyone — from beginners with no technical background to experienced technicians looking to upskill.

2 WILL I RECEIVE A CERTIFICATE AFTER COMPLETING THE COURSE?

Yes, all participants who successfully complete the course and assessments will receive an industry recognised certificate.

3 DO I NEED ANY PREVIOUS EXPERIENCE OR QUALIFICATIONS?

No prior experience is required for our entry-level courses. For advanced certification courses, basic knowledge of telecommunications or networking is beneficial but not mandatory.

4 WHAT PERSONAL PROTECTIVE EQUIPMENT (PPE) MUST I BRING?

We provide PPE like safety glasses and gloves. You are welcome to bring your own if preferred.

If you have any more questions, call or email Jabu Mdaka on

Tel: +27 (0)10 592 2326 or email: training@icl.co.za

Additional Services

Please note that the fee will be determined by individual case details

ACCOMMODATION PACKAGE

TBA

Arrangement of student accommodation

TRANSPORTATION

TBA

Arrangement of student transportation to the Academy and back to accomodations.

COMBINATION PACKAGE

TBA

Both accommodation and transportation arragements.

To arrange additional services, contact ICL YUSHU ACADEMY at training@icl.co.za

Thank You

Thank you for the opportunity to introduce YUSHU ACADEMY to you. We trust that our prospectus has provided adequate and insightful information. We look forward to facilitating your training journey with us soon.

Zach Yacumakis

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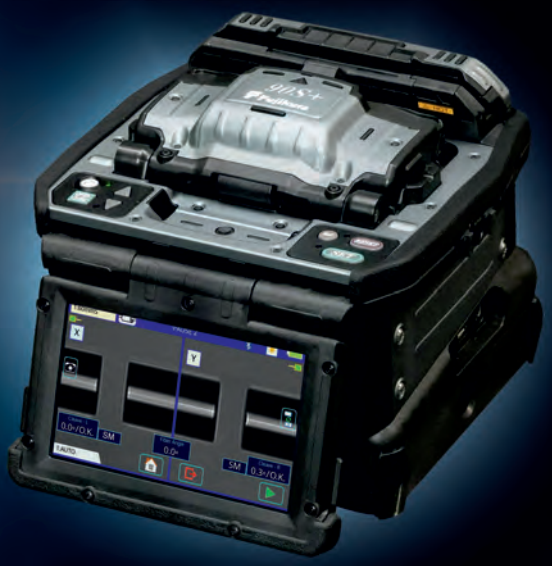

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