ICL YUSHU ACADEMY
SPECIALISED TECHNOLOGY SOLUTIONS
WWW.ICL.CO.ZA

2025-2026

COURSE PROFILE

MICT SETA Optic Fibre Accredited Courses

In Categories of :

- Optic Fibre
- Health and Safety
- Welfare
- Regulatory




Tel: +010 595 7605

345 Main Avenue, Ferndale, Randburg, South Africa

training@icl.co.za

Certified Optic Technician Training

The Fibre Optic Technician Training (FOTT / CFOT) course equips participants with the essential skills and knowledge for fibre optic installation, maintenance and repair. Combining theory with hands-on practice, trainees gain proficiency with industry-standard tools and safety protocols. The course provides a strong foundation for those starting a career, or enhancing technical skills in the telecommunications sector.

STUDENTS WILL LEARN ABOUT:

FIBRE OPTICS.

This module introduces fibre optics, covering its benefits, types and characteristics, as well as the components and modes of fibre optic communication systems. It also provides an overview of FTTH and FTTB networks.

SPLICING.

This module covers the full process of fibre optic cable preparation and splicing, including enclosure setup, buffer-tube and ribbon cable handling, coiling, splice tray attachment and final enclosure finishing.

5 Days - CFOT/FOTT
10 Days - With Advanced OTDR

TESTING.

This module teaches participants to correctly operate OTDR and Visual Fault Locator equipment, including setting up, tracing, analysing, interpreting events and storing trace data.

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Advanced Fault Finding Course

The Advanced Fault Finding Course (AFFC) is designed for telecommunications professionals seeking to enhance their skills in diagnosing and troubleshooting fibre optic network faults. The program combines theoretical knowledge with hands-on training to teach advanced techniques for locating and resolving issues within fibre optic installations.

Participants gain expertise in using Optical Time Domain Reflectometer (OTDR) technology to accurately analyse and interpret readings, ensuring network reliability and performance.

ADDITIONAL EDUCATIONAL REQUIREMENTS:

- Module 1 or similar certificate required.
- Basic computer skills required. (MS Office, etc)

STUDENTS WILL LEARN ABOUT:

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

3 Days

Students will gain advanced skills in diagnosing and troubleshooting fibre optic networks, learn to use OTDR technology effectively and develop the confidence to resolve complex faults, ensuring network reliability and enhancing their professional value in the telecommunications industry.

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Skills Assessment

At ICL YUSHU ACADEMY, we are proud to offer a Fibre Optic Technician Skills and Theory Assessment (SA), designed to evaluate both the practical knowledge and theoretical understanding of individuals working in the fibre optics networking sector.

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.

1 Day

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.

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Ribbon Cable Splicing Mastery

The Ribbon Cable Splicing Mastery (RCSM) course equips experienced technicians with the skills and knowledge to perform precise ribbon fibre splicing in the field. Students gain a deep understanding of ribbon fibre construction and function, as well as the essential tools and techniques needed for efficient splicing.

Through hands-on training with advanced splicing equipment, participants learn to prepare, align, and fuse optical ribbon fibres while troubleshooting common issues.

STUDENTS WILL LEARN ABOUT:

- INTRODUCTION TO FIBRE OPTICS.
- RIBBON FIBRE TECHNOLOGY.
- TOOLS AND EQUIPMENT.
- SPLICING TECHNIQUES.
- TROUBLESHOOTING AND MAINTENANCE.
- INDUSTRY STANDARDS AND SAFETY.

1 Day

The Ribbon Cable Splicing Mastery (RCSM) course equips experienced technicians with advanced skills in optical fibre ribbon splicing, combining theoretical knowledge with hands-on training. Students learn to prepare, align and fuse ribbon fibres using state-of-the-art equipment, gaining practical experience that ensures efficiency, reliability and professional confidence in the field.

Participants also develop expertise in trouble-shooting, maintenance and adherence to industry standards and safety practices.

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Fibre Optic Network Planning Principles

The Fibre Optic Network Planning Principles course (FONPP), 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.

Fibre optic network planning principles are crucial because they form the foundation for a reliable, efficient and cost-effective telecommunications network.

STUDENTS WILL LEARN ABOUT:

- OVERVIEW OF FIBRE OPTIC TECHNOLOGY.
- CONSIDERATIONS FOR NETWORK DESIGN.
- EQUIPMENT AND COMPONENTS FOR FIBRE OPTICS.
- INFRASTRUCTURE AND ROUTE PLANNING
- CO-ORDINATING WITH OTHERS.
- STRATEGIES FOR NETWORK DEPLOYMENT.

4 Days

The Fibre Optic Network Planning Principles (FONPP) course equips students with the knowledge and skills needed to design, plan and deploy fibre optic networks efficiently.

Participants gain expertise in network design, equipment selection, infrastructure planning, stakeholder coordination and practical deployment strategies, preparing them to implement reliable, cost-effective and scalable fibre networks.

Outside 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.

STUDENTS WILL LEARN ABOUT:

- WAYLEAVE APPLICATIONS.
- PRE-BUILD SURVEYING.
- TRENCHING METHODS.
- DUCTING.
- BACKFILLING.
- CABLE HAULING.

4 Days

Students 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.

Intro Into Radio & Wireless Communications

The Introduction to Radio and Wireless Communication course (RAW), 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.

STUDENTS WILL LEARN ABOUT:

- 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.

5 Days

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.

Confined Space Gas Detection

The Confined Space Gas Detection course (CSGD), 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.

STUDENTS WILL LEARN ABOUT:

- INTRODUCTION TO CONFINED SPACES.
- ATMOSPHERIC HAZARDS IN CONFINED SPACES.
- GAS DETECTION PRINCIPLES.
- CONFINED SPACE ENTRY PROCEDURES.
- PRACTICAL TRAINING AND HANDS-ON EXERCISES.

2 Days

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.

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Ladder and Pole Safety

This training is designed to equip participants with the necessary knowledge and skills required to understand and apply safety protocols as well as learning 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.

STUDENTS WILL LEARN ABOUT:

- INTRODUCTION TO POLE AND LADDER SAFETY.
- SAFETY.

This course 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.

2 Days

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.

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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.

Students will have an understanding of the necessary height precautions, emphasising the significance of thorough planning and organisation before commencing any elevated work.

STUDENTS WILL LEARN ABOUT:

- WHAT IS WORKING AT HEIGHTS?
- GENERAL SAFETY REGULATIONS.
- THE HIERARCHY OF WORKING AT HEIGHTS.
- NECESSARY PRECAUTIONS TO TAKE.
- PROPER PLANNING AND ORGANISING FOR WORK HEIGHTS.
- WEATHER CONDITIONS.
- MINIMISING THE CONSEQUENCES OF A FALL.
- RISK ASSESSMENT MANAGEMENT.
- PLANNING PROCESS IN PREPARATION FOR WORK IN ELEVATED POSITIONS.
- ACCESS MATERIALS.

2 Days

This course 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.

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Electronic Communication & Consumer Protection

The Electronic Communication and Consumer Protection (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.

STUDENTS WILL LEARN ABOUT:

- 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.

3 Days

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.

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ICT Policy and Regulations

The ICT Policy and Regulations course (ICTPR) 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. 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 in the economy.

STUDENTS WILL LEARN ABOUT:

- 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.

5 Days

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Online Child Protection Course

The Online Child Protection course (OCPC) 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.

STUDENTS WILL LEARN ABOUT:

- 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.

3 Days

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 wellbeing of children in an increasingly connected world.

Participants will learn about best practices for protecting children, including recognising signs of online exploitation and implementing effective strategies for safe internet usage.

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Identity Theft Course

The Identity Theft course (IDTC) 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 organisations and the legal frameworks surrounding identity protection.

STUDENTS WILL LEARN ABOUT:

- 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.

3 Days

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.

Participants will learn practical strategies for safeguarding their identities in both digital and physical environments.

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Customised Training To Suit The Student

The Custom Course module (CUS) 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 students may need will be given where necessary.

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As per
agreement

Packaged Modules

The Package Modules (PM) are designed as a comprehensive Skills Development Program aimed at introducing young individuals from diverse educational backgrounds to the dynamic and fast-growing telecommunications industry. By providing flexible options for module selection, the program allows participants to focus on areas that align with their interests and career aspirations while still gaining a broad understanding of the sector.

OPTIONS FOR MODULE SELECTIONS INCLUDE:

- FIBRE OPTIC ADVANCED TECHNICIAN TRAINING WITH ADVANCED FAULT FINDING.
- FIBRE OPTIC NETWORK PLANNING PRINCIPLES.
- FIBRE OPTIC OUTSIDE PLANT.
- INTRODUCTION TO RADIO AND WIRELESS COMMUNICATION.

Available modules include Fibre Optic Advanced Technician Training, which equips learners with in-depth skills in advanced fault finding and troubleshooting; Fibre Optic Network Planning Principles, which covers the fundamentals of designing and implementing efficient fibre networks; Fibre Optic Outside Plant, focusing on the installation, maintenance and protection of fibre infrastructure in real-world environments; and an Introduction to Radio and Wireless Communication, offering a strong foundation in the principles, applications and challenges of modern wireless technologies. Together, these modules empower participants with both theoretical knowledge and practical skills, preparing them to take confident steps toward building successful careers in telecommunications.

20 Days

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