SchoolNet

Transformation through professional
development in digital learning

South Africa

"We have discovered - painfully and expensively -

during the past few decades that using technology without fundamentally changing pedagogy simply fails to achieve the desired impact on learning outcomes"

Laurillard, 2012, Nesta, 2012, ITL Research, 2011

SchoolNet

Creating learning communities of teachers and learners using technology

SchoolNet SA has a reputation for providing courses of substance and top quality training that is tailor-made for teachers and education managers. Through its professional development programme SchoolNet endeavours to enrich teaching and transform learning.

Teacher development in digital learning is an ongoing lifelong investment in the future of learners. SchoolNet SA adds value to this investment. by working with the private sector, universities and provincial government departments as partners in planning and implementing technology integration programmes for teachers.

ICT in the Classroom conferences have been organised by SchoolNet since the late 1990s. The conferences are highly valued by educators and provincial education departments alike. Teachers return to their classrooms enthused with new and innovative ideas to enhance digital learning. School leaders obtain new insights into planning and managing digital learning across the school. Most teachers find that conferences are the springboards that allow them to become involved in professional learning communities that sustain their professional growth.. SchoolNet SA keeps the spirit of lifelong learning alive through its online webinar programme, blog and social media posts, so that teachers can be continually exposed to new tools and best practices.

Why Technology Integration?

Technology integration supports digital learning, effective use of digital tools and resources across the curriculum. Professional development that focuses on digital learning differs vastly from ICT/computer training. The difference is captured in the cliché,

"Using technology to learn – and NOT learning to use technology."

Through digital learning, supported by of digital tools and resources, learners can develop the digital literacies and critical thinking skills associated with 21st Century learning.

SchoolNet SA partners and initiatives:

- Intel ® Teach
- Microsoft ® Partners in Learning
- Vodacom Foundation
- The Telkom Foundation
- Google in Education
- D G Murray Trust
- Eskom Science Expo
- Anglo Platinum
- National Department of Basic Education
- Department of Correctional Services
- Microsoft Mobile Maths
- Adobe Youth Voices

- IEARN - International Education & Resources Network
- Commonwealth Certificate for Teacher ICT Integration (CCTI)
- The CSIR and ICT4RED
- Matthew Goniwe School of Leadership and Governance
- SAIDE African Storybook
- Provincial Departments of Basic Education
- Department of Telecommunications and Postal Services
- E Cape Department of Rural Development and Agrarian Reform

SchoolNet SA History

SchoolNet SA was established as a national organisation due to the efforts of volunteer educators and innovative thinkers in school networking during the 1990s. SchoolNet SA was formally founded in 1997 by the Department of Education's Centre for Educational Technology and Distance Education with the support of several corporate sponsors. The early projects included training teachers in the Telkom 1000 project, the Open Society Institute for South Africa project and the World Bank's WorldLinks for Development. SchoolNet SA operated as a core-funded project of the Canadian IDRC (International Research and Development Centre) until 2001 when it became a Section 21 non-profit organisation. SchoolNet SA has played an active role in influencing national thinking around e-education firmly believing that advocacy around the effective use of technology in education is an ongoing crusade.

SchoolNet SA Today

SchoolNet SA has always been involved in cutting edge initiatives that use innovative approaches to enhance digital learning. SchoolNet's core focus is transformation through digital learning. We advocate learning approaches that engage learners and the use of digital tools and resources to motivate teachers and senior managers to improve their practice. SchoolNet's work falls into the following roles:

- Advocacy related to the effective use of technology in teaching and learning;
- The evaluation of learning gains in schools adopting technologies;
- Nurturing of an ICT-confident professional learning community of teachers;
- Managing and sustaining high quality professional development interventions;
- Developing courseware that includes leadership and management, teacher education in technology integration across the curriculum, youth development, community centre management and women's empowerment.

Are you a SchoolNet member?

Through its SchoolNet membership programme, which is free and open to all educators, SchoolNet has been able to establish a strong community of teachers who use technology to enhance their teaching. This professional development programme comprises interventions such as Teach Meets and Webinars and podcasts to support teachers and uses on a variety of social media for enhanced communication including Facebook, Twitter, a blog, newsletter, YouTube channel, Slideshare tutorials and Diigo network. The SchoolNet membership programme is designed to build up teachers who want to actively pursue more intense programmes of professional development and grow into innovative educators integrating technology across the curriculum and in the broader school context.

Just access the www.schoolnet.org website and click on the prompt, "sign up for SchoolNet membership"

> **"If children do not learn the way we teach, then we must teach the way they learn."**
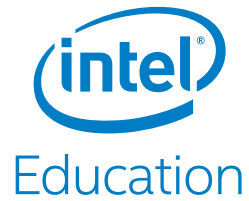>
> - Ignacio Estrada

SchoolNet creates:

- Environments that promote deep learning skills;
- Quality courses and events which are meaningful to educators and learners in the classroom;
- Educators and principals who sustain learner-centred teaching and school management;
- Conditions for lesson improvement skills;
- Appropriate ways to use technology as a resource to enhance learning;
- Innovative ways to engage learners in self-directed and collaborative knowledge building;
- Programmes that focus on professional development and the effective use of learning technologies;
- Projects that add value to the basic digital literacy competence of teachers;
- Connected teachers who build and sustain personal learning networks and communities of practice.

SchoolNet strives to:

- Influence decision-making to promote a better education for all;
- Assist school leaders to develop the vision to use technology to transform learning;
- Support and transform teachers to integrate technology in imaginative ways;
- Empower and support departmental officials, educators and learners in the effective use of innovative technologies;
- Maintain excellence in training and project management;
- Develop strong support and liaison with schools and provincial education structures;
- Increase numbers of effectively-trained teachers integrating technology.

SchoolNet

Professional Development Courses

intel®
Education

SchoolNet

Intel® Teach

Intel Teach is localized for South Africa by SchoolNet SA and is designed to prepare participating educators to plan projects that promote the effective use of technologies and the Internet in the classroom. Teachers have been using the Intel® Teach programme in South Africa since March 2003 and the content of the course has been updated annually. More recently Intel has designed new courses for teachers that accompany the latest Intel ® technologies, such as the rugged Intel® Classmate 2-in-1 device which comes with an educational software stack.

When teachers design projects that integrate ICT they are planning classroom experiences that are aligned to the South African national curriculum. Some provinces fund Intel training for their curriculum advisors as well as for ICT coordinators and teachers. Intel Teach courses are endorsed by SACE (South African Council for Educators) for the purpose of Continuing Teacher Professional Development points and have formed part of a number of qualifications for teachers at higher education institutions in South Africa.

Intel® Teach: Getting Started

Getting Started is an entry level course that builds the ICT skills of teachers, but also includes 21st century teaching and learning skills and approaches, with a special focus on learner-centred instruction, critical thinking, and collaboration.

This course is endorsed by SACE for 10 continuing teacher professional development points.

"I feel the course is quite vital for transforming teaching and learning from a teacher-centred approach to a learner-centred approach in accordance with societal and economic demands of today's world and the information age we live in today."

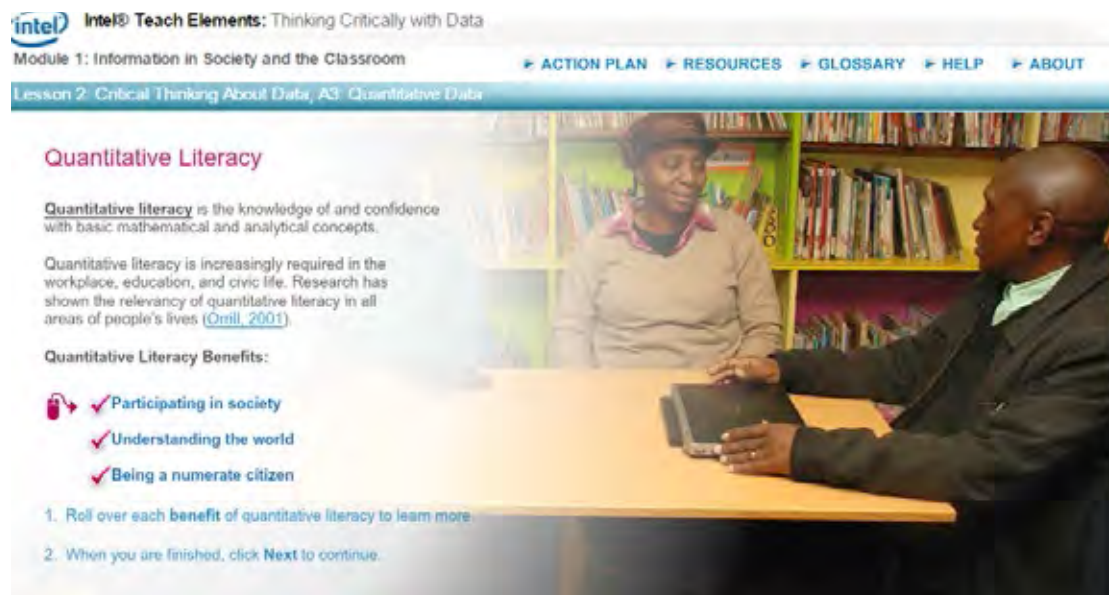- Northern Cape Teacher
(FIFA Legacy schools project)

Intel® Teach Elements

The Elements series consists of four digital learning courses which have been localized by SchoolNet SA for the African context. The model for delivery is a blend of face-to-face and self-study activities with online tutor support. These courses cater for teachers who are able to use basic digital tools such as computers and tablets.

Project-based approaches to learning - Introduces teachers to project-based approaches for classrooms in a self-paced or facilitated interactive experience. Specific classroom scenarios are used to help teachers explore characteristics and benefits of project-based learning (PBL). Throughout the course, teachers consider their own teaching practice as they follow a teacher new to project-based learning who discusses strategies with a mentor teacher.

Thinking Critically with Data

Teachers explore practical skills and strategies to help learners to think critically about the information around them.

intel) **Intel® Teach Elements:** Thinking Critically with Data

Module 1: Information in Society and the Classroom ▸ ACTION PLAN ▸ RESOURCES ▸ GLOSSARY ▸ HELP ▸ ABOUT

Lesson 2: Critical Thinking About Data, A3: Quantitative Data

Quantitative Literacy

Quantitative literacy is the knowledge of and confidence with basic mathematical and analytical concepts.

Quantitative literacy is increasingly required in the workplace, education, and civic life. Research has shown the relevancy of quantitative literacy in all areas of people's lives (Orrill, 2001).

Quantitative Literacy Benefits:

- ✓ Participating in society
- ✓ Understanding the world
- ✓ Being a numerate citizen

1. Roll over each **benefit** of quantitative literacy to learn more.
2. When you are finished, click **Next** to continue.

Teachers explore practical skills and strategies to help learners to think critically about the information around them. Teachers explore practical skills and strategies to design learner projects and assessments to help learners think critically when collecting and analysing data around them.

Collaboration in the Digital Classroom

Helps teachers prepare learners to collaborate within and outside the classroom in the digital, global world. This course provides an interactive e-learning experience that looks at collaboration with a focus on online collaborative tools. Teachers see how collaboration helps learners develop 21st Century thinking skills, deepen content understanding, and prepare them for the global society.

Assessment in 21st Century Classrooms

Introduces teachers to assessment strategies to meet the needs of 21st Century learning. Teachers see how assessment strategies can benefit their teaching practices and their learners' learning as they engage in activities to learn how to plan, develop, and manage learner-centred assessment.

Intel® Teach
Thinking with Technology

Designing classroom projects that focus on thinking and incorporate online thinking tools.

Visual Ranking

Used for ranking items in a list in order of importance; working in pairs or small groups, learners are engaged by deeper thinking and justifying their ranking. The newly revised interface allows interaction with the teacher and with other groups allowing learners to identify and refine the criteria they use to assign a ranking to a list. Here is a screen capture of a sample project:
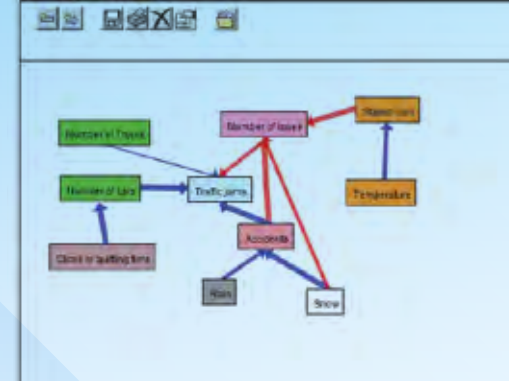
Seeing Reason

Used for investigating cause and effect relationships in a visual mapping format. This results in in-depth analysis of underlying issues.
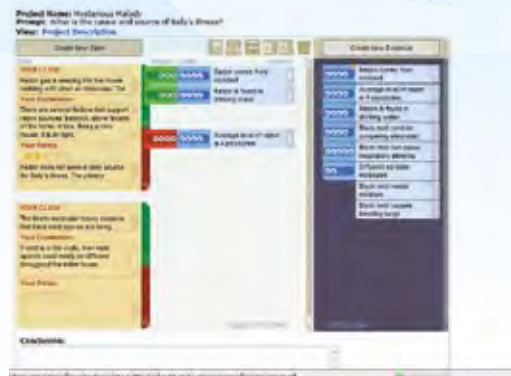
Showing Evidence

Anyone can have an opinion, but backing it up with well-articulated evidence requires careful thinking. The Showing Evidence Tool helps learners learn how to construct well-reasoned arguments and prove their case with credible evidence. Learners have to cite where that evidence comes from and determine how credible it is and how strongly it supports their argument.

Intel® Transforming
Learning Course

Digital Learning Fundamentals

The Intel Transforming Learning Course: Digital Learning Fundamentals consists of ten hours of face-to-face professional development focused on integration of digital tools to promote learner communication, collaboration, creativity, and critical thinking. Several extension activities and optional modules provide additional topics and hands-on experiences that support teachers' needs and interests.

This course explores the world of digital learning as teachers experience ways to incorporate technology into their classroom, and design activities to build 21st Century skills. The core modules of the Intel Digital Fundamentals course focus on the 21st Century skills of communication, collaboration, creativity and critical thinking.

The objectives of the course are to:

Build skills with technology resources for effective classroom integration;
Explore ways to use technology to build learners communication and collaboration skills;
Learn strategies and tools for enhancing learners creativity;
Explore methods for using technology to improve learners critical thinking in a 21st century classroom.

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Introduction to Tablets in the Classroom

intel
Education

This course is designed for teachers who are about to implement tablets in a mobile teaching and learning environment. It aims to empower the teacher as a new adopter of tablets in the classroom with an understanding of instructional strategies, educational tools, and classroom management techniques. The course further exposes teachers to new collaborative models for teaching and learning and provides a foundation for integrating tablets into classrooms and expands the teacher's toolkit. The guided hands-on experiences, opportunities to explore, and in-person access to practical knowledge about tablets in the classroom will set a foundation for how to proceed with tablets in the classroom.

The courses themes are:

- Familiarity with tablet features and functionality;
- Instructional design and workflow in a tablet classroom;
- Anytime, anywhere learning with access to online tools and resources;
- Classroom management topics and solutions;
- Collaborative activities with mobile apps.

"The use of all the gadgets and tools simultaneously was excellent for me. It will make teaching easier in this technological era whilst at the same time catching the interest of our millennium children with tablets, it's amazing!"

- Mpumalanga Educator

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Intel® Easy Steps
Digital Literacy Course

What is it?

This course combines basic technology literacy with a focus on entrepreneurship. A basic technology literacy education program that promotes entrepreneurship.

Who's it for?

Introductory Course is for Adult learners or out-of-school youth with little or no experience with computers.

Entrepreneurship is for community members, out of school youth or adult learners wanting to learn how to use computers to enhance their business profiles and marketing using online tools and apps.

What does it teach?

Participants learn the "basics" of using technology, enabling them to use devices in ways that are relevant to their daily lives.

What skills will participants learn?

Through active, hands-on experience, participants learn to explore and use basic applications that are used in everyday life:

- Internet Search
- Email
- Word Processing
- Spreadsheets
- Multimedia
- Social media

What will this enable participants to do?

Communicate with family and business associates through email; access information on the Internet; create a range of documents including flyers, invitations, budgets and business cards and; and navigate social media such as Facebook and Twitter in safe and professional ways.

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Microsoft in Education -
Partners in Learning in South Africa

Microsoft

"I realised that we are teaching a mobile generation who are competent in IT tools. My wish is to see educators incorporating teaching with digital tools to make teaching fun and to improve learners' quality of learning. Learners learn by creating knowledge not by absorbing it."

Phuti Ragophala, Principal, Pula Madibogo Primary

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Microsoft in Education

Since 2005 SchoolNet has been developing, updating and localising Microsoft Partners in Learning courses, which have been widely used in South Africa and other African countries. To date more than 30 000 South African teachers have experienced one or more of the following courses. These courses are built on sound adult-based learning principles which ensure that participants are learning skills that they will be able to immediately apply to their work.

The courseware for SchoolNet SA's Microsoft courses can be found here: http://schoolnet.org.za/PILP/

Peer Coaching

Peer coaching is a whole school professional development model that provides coaches and teachers with opportunities to collaborate as peers in exploring ways in which learning can be enhanced with the support of ICT. The goals of Peer Coaching include:

Peer-to-peer support;
Workplace collaborative learning;
Designing digial learning;
Enhancing lesson plans;
Whole-school approach to professional development.

ICT Skills for Teachers

This introductory ICT skills training provides teachers of all levels with initial, intermediate and advanced scenarios that directly relate to their roles as teachers.
There are almost 50 scenarios that make use of Microsoft applications including:

Prepare for and manage lessons;
Provide learner access to technology resources;
Manage school activities;
Use Microsoft's free tools available from:
education.microsoft.com.

ICT Skills for Principals

Like ICT Skills for Teachers, this introductory ICT skills training provides school managers with scenarios that will develop skills to produce artefacts that they can use in undertaking their management duties. The 25 scenarios that build skills using Microsoft Office include:

Draw up a budget;
Write a report to the Governing Body;
Design a certificate.

"In the ICT Skills for Teachers course, context makes such a difference. Teachers can see how computer skills will make their lives easier. They leave the training with something they can use on Monday. If they are making a test that they will use, they do not see the workshop as a waste of time."

Randall Pienaar, Free State Department of Educaiton

ICT Integration – One Step Further

Teachers are guided through the educational use of Microsoft Encarta and Microsoft One Note in order to develop information skills that they can then use to integrate technology into their teaching. Whilst this course can be applied to teachers of any subject, it includes additional resources for Maths and Science teachers. The purpose of this course is to help teachers integrate ICT by learning how:

learners can gather and use information in simple research;
teachers can create learning objects that support and enhance learning.

Microsoft Partners in Learning: Teaching with Technology

The Teaching with Technology curriculum is designed to help educators develop a deeper understanding of how ICT integration can enhance the teaching and learning experience, and enable learners to acquire 21st century skills. This course is offered online through the Microsoft Educator Community, however a face-to-face orientation session is often conducted to introduce the course. Teachers can work though the following modules at their own pace, completing an online assessment at the end of each module:

Using ICT resources to support your teaching;
How do technology and pedagogy mix;
Use basic ICT tools to support teaching;
Organise and manage the use of ICT for your teaching.

ICT Integration - WebQuests

This course introduces teachers to a simple project template for implementing ICT- integrated projects in the classroom. WebQuests are learner-centred and inquiry-based; they promote higher order thinking skills and challenge learners to explore the web for information. In addition to providing a range of WebQuest examples that teachers can explore, adapt and use, this course covers the following modules:

Introduction to WebQuests;
WebQuests: Analysis and Evaluation;
Creating WebQuests.

Help Desk - Deploying Learner Technical Support Solutions

This programme assists both learners and teachers from schools to solve basic technical problems and to conduct simple network installations. Teachers and potential Help Desk learners cover the following modules during this course:

Planning your school's Help Desk;
Understanding Hardware;
Supporting Hardware, Networked Computers and Security Needs;
Performing Maintenance Tasks.

ICT Leadership for Education Managers

This is a programme designed for decision makers so that they can lead the adoption of ICTs. Participants are shown how ICTs can improve administration and become a catalyst for pedagogical change. Modules aimed at assisting managers to design and implement sound ICT policies include:

What managers can do with ICT;
Management of ICT resources;
Uses of ICT for administration and teaching;
Issues regarding the ICT policy.

Using Digital Resources in the Classroom

The purpose of this course is to guide teachers to be able to effectively integrate the use of curriculum-aligned digital content in their lessons in a variety of ways depending on the purpose for which they wish to use the resource. The course uses the 2Enable materials as the sample digital resources and includes the following lessons:

What is a digital content resource and how can I most effectively use it in class;
Exploring assessment in 2Enable;
Scenarios for managing digital content resources in the classroom;
Planning lessons that integrate digital content resources;
Deeper learning and how to assess it.

"My passion is developing young minds; helping them to develop positive values and be the best at what they do. Introducing them to technology is an essential part of this."

- Mabore Lekalakala, Toronto Primary

Microsoft Innovative Educator Expert Program

The Microsoft Innovative Educator Expert process recognises and rewards teachers who are making use of technology to promote teaching and learning in engaging and inspiring ways. As part of this process they share their lesson plans, learn new technologies, train other teachers and network with an international community of teachers. SchoolNet assists Microsoft in administering this program by:

encouraging teachers to apply to be Microsoft Innovative Educator Experts;
Assessing and shortlisting candidates;
Mentoring and supporting Microsoft Innovative Educator Experts to ensure that they benefit from the program;
Highlighting the successes of Microsoft Innovative Educator Experts through social media and case studies.

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Commonwealth Certificate
for Teacher ICT Integration

What is the CCTI?

The Commonwealth of Learning (COL) in collaboration with SchoolNet SA has created the Commonwealth Certificate for Teacher ICT Integration (CCTI). It is a series of online courses that can be modelled into a qualification at the level of an Advanced Certificate (NQF 6) or Advanced Diploma in Education (NQF 7). It is suitable for teachers, school leaders and teacher trainers wishing to focus on technology integration in school management, teaching and learning. The courses are an enhancement of the very successful Educators' Network which had been offered by SchoolNet SA in many African countries since 2001.

The CCTII aims to improve teachers' experience of teaching with technology in the classroom and increases educators' involvement in leading technology implementation in their institutions. It challenges educators to constantly reflect on what they do in their institutions and classrooms and how technology can be integrated into their evolving management and teaching styles.

The CCTI is designed as a series of online courses for school-level educators as well as for teacher trainers. It is Open Courseware that COL and SchoolNet SA are making available to teacher training institutions throughout the Commonwealth. The CCTI is currently offered in several Commonwealth countries worldwide.

The CCTI Model

Activities Driven

Activities are at the centre of the modules and guide teachers to read supporting content, plan and implement classroom activities, reflect on practice and share their classroom experiences with their group.

Classroom/school context

The all-important context of learning is the educator's institution and their subject needs. These are specifically identified by the teachers themselves during the modules. The activities and content do not focus on any specific context but often use examples to illustrate a point. Educators' own contexts and experiences are shared as an important contribution to the course content.

Uses technology as a tool in the workplace

The emphasis is on how teachers and learners use technology as a tool and integrate technology into teaching and learning. The focus is not on computer skills or the technology but rather on the pedagogy.

Community of learners

The participating educators share their experiences with a group of colleagues online, using various online collaboration tools.

Sharing Classroom experiences

This course involves trying out new ideas in the classroom, reflecting on them and then sharing thoughts about them with a group of colleagues online. Discussions revolve around contemplating change and possibly implementing new teaching methodology in classrooms.
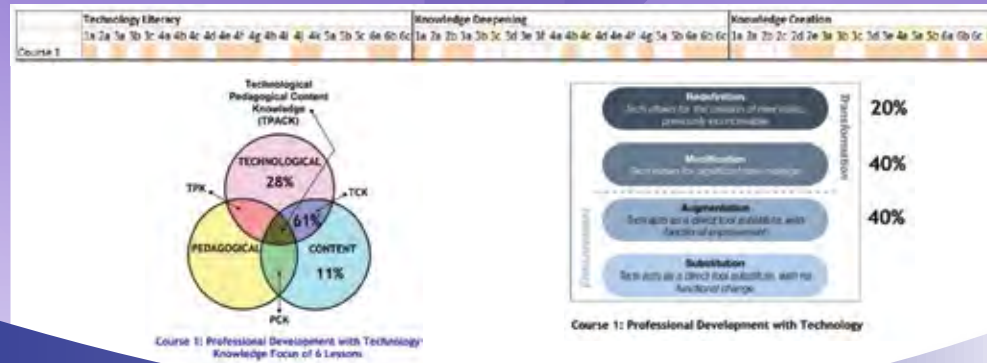
HOW CAN COL HELP?

Through partnerships with institutions and SchoolNet South Africa, COL will:

- Provide a Framework and Guidelines for Teacher Development in ICT
- Engage in further development and upgrading of learning materials
- Work with institutions to localise, accredit and offer CCTI
- Assist in initial tutor training

COMMON

Commonwealth
CERTIFICATE *for*
TEACHER ICT Integration

Course 1: Professional Development with Technology

Structure

Course entry requirements

Learners must have an initial teacher qualification to enter the course;
It is highly recommended that learners are practising teachers;
Learners must be at least moderately computer literate and be able to perform basic office suite skills, browse the internet and use email.

Assessment

Ongoing submission of a portfolio of work through tasks and assignments;
Assessment of collaboration and reflection skills.

Courses

1. Professional Development with Technology
2. Designing Learning
3. Technology-Enriched Teaching
4. Education in a Digital Society
5. Innovative Approaches to Learning with Technology
6. Planning Learning Through Projects
7. Managing Technology-Rich Learning Spaces
8. Planning for Technology Integration
9. Change Leadership for Technology Integration

Each course has the value of 10 SACE CTPD points except one which has 20 points thus totalling 100 SACE CTPD points for the full programme.
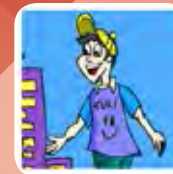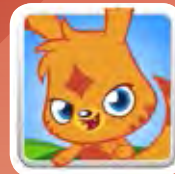
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ICT4RED Teacher Professional
Development Course

SchoolNet SA has collaborated in the development of this tablet-focused course and has managed the training and logistics for this course which has been successfully implemented in the Cofimvaba area of the Eastern Cape. It is presented as 10 modules over 9-10 months during which time teachers use tablets to develop a toolbox of teaching, technology and 21st century skills. In each module teachers are given the opportunity to learn more about an innovative teaching strategy, relevant assessment tools as well as some technology skills to assist them in applying what they have learned in their classroom.

The journey through the ten modules forms a learning path. This path starts from using and caring for the device as a personal technology in Module 1 and 2, to a teaching device in Module 3 to 7, to a device for further learning and collaboration in Modules 8 to 10. Each of the modules has one or two badges attached to it. The badges represent a challenge to apply a specific teaching strategy in the class; to use, create and licence some educational content and to demonstrate technology skills. These 13 badges, as well as the challenges they represent, have to be completed in order for teachers to graduate. In addition there are 5 challenge badges that they can try.

This course is endorsed by SACE for 10 CTPD points.

Learning Gains through Play

Teacher Professional Development Course Modules:

Module 1 : Jigsaw
Module 2 : Storytelling
Module 3 : Role Play
Module 4 : Learning stations
Module 5 : Mind Mapping
Module 6 : Flipped classrooms
Module 7 : Game Based learning
Module 8 : Field trips
Module 9 : Gallery Walk
Module 10 : Reflection

The Learning Gains through Play project develops foundational literacies in Grades R and 1 through the innovative use of technology-enabled, learner-centred play in the classroom. Intel tablets loaded with carefully selected apps and games have been integrated into learning activities to stimulate and enhance fine-motor skills and to develop and practice visual literacy and numeracy skills. Xbox Kinect games engage learning through play, develop gross-motor and fine-motor skills and provide opportunities to reinforce visual and number literacies. As English is the language medium for almost all of the apps and games, another area of study is acquisition of English oral language. The project's ultimate outcome is that learners are equipped with foundational skills and attitudes for future academic success. The attitudes of motivation to learn, enjoyment of learning and confidence in learning are also sought but the focus throughout is on the use of play.

The legacy of this project will be an anthology of Apps for CAPS, reviewed and recommended by teachers and project staff as well as a handbook for Foundation Phase teaching strategies in Maths and Physical Education.

SchoolNet South Africa   DGMT THE DG MURRAY TRUST

Module 7
Xbox Kinect & Games in the Classroom

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A Journey with Tablets

There are great opportunities for learning to be fun, yet meaningful and structured in a classroom with tablets.

This comprehensive course explores a range of ways that teachers can use tablets to achieve their personal and professional learning goals.
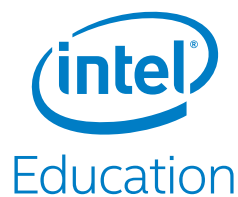
It is possible to study this course at a distance or alternatively to select modules for face to face training sessions. Participants share their discoveries and queries with each other during scheduled online community sessions.

Change Leadership for ICT Integration

This course was developed by SchoolNet SA as a critical change management component to the ICT4RED programme. Subsequently it has been implemented in a number of school technology projects throughout South Africa because change leadership is a critical component of any technology intervention in schools. We all know that if the principal and/or the HODs are not supporting you then your efforts can be futile. Leadership workshops alert SMT teams as well as District officials to the changes that technologies bring and the new possibilities afforded through innovative teaching and learning. These workshops provide the platform for effective information sharing between schools and for deep reflection around the change leadership process. The course is underpinned by Michael Fullan's series on Learning to Lead Change (2008).

A more comprehensive online version is also available as courses 8 and 9 of the Commonwealth Certificate of ICT Integration for Teachers (CCTI). SACE endorsed for 20 CTPD points.

Module 1 :   Why are we doing this?
Module 2 :   Understanding the change process
Module 3 :   Capacity Building
Module 4 :   Facing Challenges
Module 5 :   Let's Communicate for a Change
Module 6 :   A Culture of Learning in the Workplace
Module 7 :   A Culture of Evaluation

Professional development points for SACE endorsed courses

CATEGORY	COURSE NAME	COURSE DESCRIPTION	SACE PTS
Leadership	SchoolNet SA: Change Leadership for ICT Integration	This course is influenced by literature on the key elements of change management and the debate about change leadership which is underpinned by Michael Fullan's work on Learning to Lead Change; the idea that change needs energy, ideas, commitment and ownership rather than a controlling management.	20
	Management and Usage of ICTs in Public Schools	In this course, school leaders are guided through the process of developing a vision for ICT usage, creating ICT plans, policies and learning programmes; and managing ICT resource	10
	Microsoft Partners in Learning: ICT Leadership for Education Managers	This is a programme designed for decision makers so that they can lead the adoption of ICTs. Participants are shown how ICTs can improve administration and become a catalyst for pedagogical change.	10
Early ICT Literacy	Intel® Teach: Getting Started	An entry level ICT skills course including activities focused on basic computer skills and 21st Century teaching. Introduces learner-centred teaching approaches, critical thinking, and collaboration.	10
	Microsoft Partners in Learning: ICT Skills for Teachers	This introductory ICT skills training provides teachers of all levels with initial, intermediate and advanced scenarios that directly relate to their roles as teachers	10
Integrating Learning Technologies in curriculum	Microsoft Partners in Learning: ICT Integration – One Step Further	Teachers are guided through the educational use of Microsoft Encarta and Microsoft One Note in order to develop information skills and the ability to design simple learning objects for teaching and learning.	10
	Intel® Teach: Elements - Project Based Approaches	Project-based approaches helps teachers design activities to engage learners with self- directed learning. Teachers are introduced to helpful ideas and new approaches to use in the classroom.	10
	Intel® Teach: Elements - Collaboration in the Digital Classroom	Teachers discover ways to plan and manage learner collaboration whether it is within the classroom or with other classrooms or with experts outside of the classroom. Means of assessing learners engaged in collaborative activities are described and explored.	10
	Intel® Teach: Elements - Assessment in 21st Century Classrooms	An in-depth look at assessment that meets the needs of 21st century learning. Teachers learn how to plan, develop, and manage learner-centred assessment.	10
	Intel® Teach: Elements - Thinking Critically with Data	This course examines critical thinking with a focus on data analysis in our information-rich world.	10
	Microsoft Partners in Learning: ICT Integration: WebQuests	This course introduces teachers to a simple project template for implementing ICT- integrated projects in the classroom. WebQuests are learner-centred and inquiry-based; they promote higher order thinking skills and challenge learners to explore the web for information.	10
	Microsoft Partners in Learning: Teaching with Technology	The Teaching with Technology curriculum is designed to help educators develop a deeper understanding of how ICT integration can enhance the teaching and learning experience, and enable learners to acquire 21st century skills.	15
	Microsoft Partners in Learning: Using Digital Resources in the classroom	The purpose of this course is to guide teachers to be able to effectively integrate the use of curriculum-aligned digital content in their lessons in a variety of ways depending on the purpose for which they wish to use the resource. The course uses the 2Enable materials as the sample digital resources.	15
	Google Curriculum: Level One Educator Certificate	Teachers attain this Google certification when they take the test and prove their proficiency at using Google tools in the classroom. The certification lasts for 24 months.	15

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CATEGORY	COURSE NAME	COURSE DESCRIPTION	SACE PTS
Innovative Practice	Engaging Teachers and Learners with Innovative Technologies	This module helps teachers plan how to use the Xbox 360 Kinect gaming console and standard games to improve the language and literacy skills of primary school learners.	0
	Microsoft Partners in Learning: Innovation Workshop	This workshop is designed to inspire computer literate teachers with ideas for projects that integrate technology into teaching and learning. Teachers are encouraged to "think outside of the box" and it is hoped that many will go on to participate in the Microsoft Innovative Educator Expert programme.	10
	Intel® Teach: Thinking with Technology	The course focuses on integrating the following online thinking tools into classroom projects in order to encourage creativity and lateral thinking: Visual Ranking - learners debate differences, reach consensus, and organize ideas. Seeing Reason -investigating cause and effect relationships through visual mapping Showing Evidence –gathering and evaluating evidence to support or refute a claim.	10
	Microsoft Partners in Learning: Innovative Teachers Network and Forum	The Microsoft Innovative Educator Expert process recognises and rewards teachers who are making use of technology to promote teaching and learning in engaging and inspiring ways. As part of this process they share their lesson plans, learn new technologies, and train other teachers and network with an international community of teachers.	10
Community ICT skills	SchoolNet SA: Sizanani Community ICT Literacy	A basic computer skills course taught in contexts that will be useful to people either as members of community organisations or as entrepreneurs. For example, participants are taught how to design a logo and then to use this to create business cards and letterheads.	MICT - NQF level 2 (4 credits)
	Intel®: Easy Steps	This course is aimed at adults who want to boost their computer literacy skills, learn more about web 2.0 tools or enhance their entrepreneurship skills.	0
Integrating tablet technology	SchoolNet SA: Journey with Tablets	Participants on this course explore the full range of uses of a tablet in education and can select the uses according to their needs thus forming their own learning pathway.	10
	Intel Learn: Digital Learning Fundamentals	This face-to-face course is designed for teachers who are about to implement tablets in a mobile teaching and learning environment.	15
	Intel Learn: Tablets in the Classroom	This course is designed to inspire teachers to encourage their learners to think deeply, increase productivity, grow creatively, stay on task, and connect safely and effectively with the real world using tablet technology	15
	ICT 4RED: Teacher Professional Development	The purpose of this course is to introduce teachers to a range of pedagogical practices that exploit the use of mobiles devices to enhance teaching and learning. Each module explores at one new pedagogical approach.	10
Technical	Microsoft Partners in Learning: Deploying Learner Technical Support Solutions (Help Desk)	This programme assists both learners and teachers from schools to solve basic technical problems and to conduct simple network installations.	10
Mentorship	Microsoft Partners in Learning: Peer Coaching	Peer coaching is a whole school professional development model that provides coaches and teachers with opportunities to collaborate as peers in exploring ways in which learning can be enhanced with the support of ICT.	30

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Expo Science	Judging Expo science and engineering projects	This course was developed by SchoolNet to capacitate potential judges for the Eskom Science and Engineering Expo.	10
	Supporting learners in Expo science and engineering projects	This course was developed by SchoolNet for teachers who wish to enter and support their learners in the Eskom Science Expo.	10
Common-wealth Certificate for Teacher ICT integration	Planning learning through projects	Teachers learn about principles of project design by exploring and analysing existing projects. They develop an understanding of the key components of a structured project by initially designing WebQuests.	10
	Change leadership for Technology Integration	This course forms Part 2 of a change leadership and planning series of courses. In this course the focus is on the key principles of change leadership and its effective implementation.	10
	Managing Technology-Rich Learning spaces	Teachers on this course take a deeper look at the wide variety of technology options available in today's classrooms and then explore how to use these to create innovative learning experiences and to use learning spaces flexibly.	10
	Innovative approaches to learning with technology	This course allows teachers to acquire the competencies and knowledge to plan learner-centred learning experiences that use technology and foster innovative approaches to learning that engage learners in knowledge-building tasks.	10
	Planning for technology integration	This course is Part 1 of a change leadership and planning series of courses. In this course the focus is on planning technology integration from the perspective of curriculum needs and implementation in school.	10
	Education in a digital society	Teachers on this course study digital literacy and digital citizenship. They develop strategies to teach and integrate these skills in teaching and learning throughout the school.	10
	Designing Learning	This course explores what we know about how people learn – and leads us to the constructivist approach and how the innovative use of technology can enhance lessons.	20
	Technology – Enriched Teaching	The focus of this course is on the technology resources that can support teachers as they plan and implement a lesson with a view to enhancing the learning experience.	10
	Professional Development with Technology	This course helps teachers to experience how to harness technology resources for teaching. The focus is on using technology to support teaching.	10

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NOTES

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Website for Intel® Teach: **http://www.school.za/ttf**

Website for Partners in Learning: **http://www.school.za/atwork/pil.htm**

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