

## **DETA CONFERENCE 2009**

**Issues and Challenges in Education in  
Africa – The need for a “new” teacher**

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**Title: Using Video Technologies  
in Teacher Preparation**

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## **Introduction**

- New technologies have influenced the delivery of modern distance education courses to students.
- Approaches include: videoconferencing, teleconferencing, fax, emails, online tutoring, blogging, face book and others.
- The media is to enable students to gain the required skills, knowledge and experience
- Case studies are often used

## **Case study methodology**

Case study methodology may be seen as drawing on situated cognitive theory; where the experts recommend situating the video case studies in real-world classroom experiences and events.

A paper by Perry and Talley (2001) titled 'Online video case studies and teacher education' states that case study methodology has become a powerful tool for bringing the complexities of the classroom into focus and supporting pre-service teachers in connecting knowledge and practice.

### **Benefits of using videos in teaching**

Some benefits of videos include:

1. Provide natural medium for enhancing the sense of context and realism in case studies.
2. Capture complexities of classroom interactions and allow students to replay events that escaped them
3. Provide vast amounts of rich detail usage of images and sound of real classroom and authentic learning experiences.

## Benefits (contd.)

4. Videos have become part of the curriculum for learning if designed to be used in intentional ways towards intentional learning goals.
5. Classroom teaching scenarios used to supplement lectures and provide more exposure to real teachers in the act of teaching.

## Constructivist practice of mobilizing experts

Experts required to ensure quality end-product acceptable for DE courses include:

- ❖ Instructional technologists
- ❖ Professional videographer
- ❖ Subject matter experts (SME)

## **Why these experts?**

- For instructional considerations
- What the goals and objectives of the videos are?
- Who are the learners?
- What exactly the content of the video will be addressing and many more questions

## **Video development process**

- Planning - SMEs selecting 'hot spots'
- Scriptwriting and storyboard
- Shooting schedule
- Securing location, acquiring permission
- Acquiring equipment & materials
- Shooting & re-shooting
- Editing & sound dubbing & other effects
- Production – DVD/CD-ROMs

## **Challenges**

1. Time
2. Planning & preparation (time consuming)
3. Editing
4. Production of tapes
5. Acquiring & Transportation of equipment
6. Availability of SMEs

## **Conclusion**

There is a growing need for better, more accurate and effective multimedia production in the teaching and learning world. Every good teacher wants as much as possible to present information and ideas to stimulate his or her students . However, the technical aspect of creating video materials and the stages of developing them can be demanding.

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