ICT Savvy Workforce for the 21st
Developing Today’s Students for ICT Roles in the Future

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South East Asia
Networking Academy

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Agenda

- Introduction to Cisco Networking Academy Program
- Benefits to Instructors
- Benefits to Students
- Success Stories
Cisco Networking Academy

- Develop "job ready" networking professionals and prepare them for the demands and enormous opportunities of the information economy.
- Provides Graduates with an international passport through industry certification to a well-paid career.

- Creates a qualified talent pool in each segment of education, e.g., High School, Vocational, Polytechnic and University Sector.
Our Reach
Academy Global Connected Presence Today

Participating Students by Region
(450,000+ Students)

166 Countries
500,000+ Students/Year
2 Million Students over 10 years
400,000 CCNA 4 graduates

% of Worldwide Total as of 10.31.06

Source: AME, prepared by jzinn on October 31, 2006 - data as of November 19, 2006
Cisco Networking Academy
APAC Impact Since 1998

As of June 2008

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNTRIES</td>
<td>25</td>
</tr>
<tr>
<td>STUDENTS TRAINED</td>
<td>325,016</td>
</tr>
<tr>
<td>ENROLLED STUDENTS</td>
<td>100,000+</td>
</tr>
<tr>
<td>ACADEMIES</td>
<td>1,434</td>
</tr>
<tr>
<td>% OF FEMALE STUDENTS</td>
<td>27%</td>
</tr>
<tr>
<td>INSTRUCTORS</td>
<td>5,061</td>
</tr>
</tbody>
</table>
What Is it Really?
The World’s Biggest e-Learning Program

- **Instructor-led** Web-based curriculum
- Media rich content providing users with an *interactive learning experience*
- **Integrated hands-on labs** giving the students the opportunity to hone real world skills
- **Online assessment including quizzes, chapter, and final exams** allowing for immediate test results
- Courses, either on their own or in combination with a series of courses, map to an **Industry recognized certification**

![Image of a laptop showing a virtual trunking protocol tutorial.]
Benefits to Instructors – ICT for education Delivery

- Taught within a period of 5 to 20 days to teach the courses
- Are provided with teaching guides in the form of PowerPoint Slides,
  - Quizzes
  - Lab Exercises
- Provided with continuous elearning training for themselves
- Given fully sponsored industry certification vouchers to remain at the cutting edge
Benefits to Students

- Learning **while at school** on what’s going on today in the ICT marketplace through elearning curriculum.
- Curriculum prepares them for a **globally recognized industry certification**
- Networking Academy Student graduates are given priority placements in **Internship/Graduate Jobs** with Cisco and Cisco Partners
What’s in the Curriculum?

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CAREERS</th>
</tr>
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<tbody>
<tr>
<td>University</td>
<td>Enterprise Networking</td>
</tr>
<tr>
<td>Colleges Vocational Schools</td>
<td>Small and Medium Business Networking</td>
</tr>
<tr>
<td>Secondary Schools</td>
<td>Network Installer</td>
</tr>
<tr>
<td></td>
<td>Basic IT Support</td>
</tr>
<tr>
<td></td>
<td>System Admin</td>
</tr>
</tbody>
</table>

**FUNDAMENTAL**
- IT Essentials I
- IT Essentials II
- PNIE

**CCNA Discovery**
- Routing, Switching, WANs, Intro to Adv Tech

**CCNA Exploration**
- Routing, Switching, WANs, Intro to Adv Tech

**CCNP**
- Advanced Routing
- Remote Access
- Multilayer Switching
- Troubleshooting

Student Networking Knowledge and Skills
## Curriculum and Certification Mapping

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCNA Discovery</td>
<td>CCENT/CCNA</td>
</tr>
<tr>
<td>CCNA Exploration</td>
<td>CCNA</td>
</tr>
<tr>
<td>CCNP 1-4</td>
<td>CCNP</td>
</tr>
<tr>
<td>IT Essentials I</td>
<td>CompTIA A+</td>
</tr>
<tr>
<td>IT Essentials II</td>
<td>CompTIA Server + (when combined IT Essential I curriculum)</td>
</tr>
</tbody>
</table>
Potential Career Paths

Network Design and Administration
- Network Administrator
- Network Engineer
- System Administrator
- Network Analyst
- Internet Network Specialist

Telecommunications Industry
- Cabling Installation Technician
- Telecommunications Technician
- Cabling Installation Coordinator

Technical Support Professionals
- PC Support Specialist
- Help Desk Technician
- Network Technician
- Hardware Installation Coordinator
- Software Applications Support

Foundation for Most Careers in the Information Economy

Programming and Software Engineering
- Visual Programmer
- Programmer/ Analyst
- Software Applications Analyst
- Quality Assurance Analyst
- Technical Writer
How are we achieving our goals?

UNESCO Project Example
How Do we Scale

- Train the Trainer Model
- Free Access to Curriculum
- Investment only in Instructor training Fee and equipment used for curriculum

MOE/University level institutions

Vocational /High School

Local Academies

Regional Academies

University/Poly technics

CATC
**Re-skilling Teachers for 21st century**

- UNESCO Next Gen Teacher Training Project
- CISCO Model Adopted in 10 countries across APAC

<table>
<thead>
<tr>
<th>Energize</th>
<th>Empower</th>
<th>Educate</th>
</tr>
</thead>
</table>
| - Lack of ICT Trained Teachers coming out of training colleges  
  - Teachers not using ICT in teaching as much as they should  
  - Digital Divide among students | Teacher Training Colleges  
  - Educate pre-service teacher instructors across 10 countries in APAC  
  - Integrate Networking Academy curriculum into existing ICT curriculum | Students  
  Pre Service Trained Teachers post graduation can immediately teach ICT programs in schools  
  Teacher Training Colleges  
  Trained Instructors can continue to train new batch of pre-service teachers in TEIs |

OUTCOMES Trained ICT Teachers Pool Created

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United Nations Educational, Scientific and Cultural Organization
Sri Lanka & Malaysia – Best Practices from Next - CISCO Model Adopted for Pre-Service Teacher Training

Sri Lanka TEI’s

- After initial pilot – all 18 TEI's in Sri Lanka are adopting the program
- Developing expert skills sets within a group of core teachers to transfer the knowledge to the rest
- Pre-Service teachers in the program expects to play the role of IT rep in schools

Malaysia - UPSI

- Plans to integrate curriculum into pre-service ICT teacher training course
- Plans to expand curriculum to other degree level courses within UPSI as well
Best Practices from Academy Program

**Countries - SEA**

- Indonesia – Curriculum adopted at national level for vocational education
- Singapore – Curriculum adopted in all Polytechnics for ICT related Diplomas
- Malaysia – 17 out of 22 Public Universities adopted the curriculum within the Degree programs
- China – 300 Vocational Schools adopting the curriculum

**Countries - ROW**

- New York – Curriculum adopted at State Level
- Romania – curriculum adopted as National curriculum for Vocational Education
- Egypt – Curriculum used for Egypt Education Initiative
- Germany – curriculum adopted at country level for High School
Talk to Us
Developing an ICT Savvy Workforce for the 21st century

- Network is now the **platform** for all types of business

- To continue to remain as a **competitive workforce / economy**, the time is now to partner with Industry

- Teachers are **not keeping up with Students** in the area of ICT
The Solution – It Ain’t Rocket Science!

Empower Them and They will Power our Students for the Future
How Far Will IT Skills Take You?

Anywhere there’s a network