Members

- 131 chapters and 16 student clubs in 49 countries
- 35,000 Individual Members
- 1,800 Corporate Members

Members include:

- Military
- Government
- Industry – Large & Small Business
- Academia
- Students
Cyber Security Framework

**IDENTIFY**
- Asset management
- Business environment
- Governance
- Risk assessment
- Risk management strategy

**PROTECT**
- Access control
- Awareness and training
- Data security
- Information protection and procedures
- Maintenance
- Protective technology

**DETECT**
- Anomalies and events
- Security continuous monitoring
- Detection process

**RESPOND**
- Response planning
- Communications
- Analysis
- Mitigation
- Improvements

**RECOVER**
- Recovery planning
- Improvements
- Communications

Source: NIST © 2014
# Cyber Security Education

<table>
<thead>
<tr>
<th>Country</th>
<th>Current Experts</th>
<th>Experts needed training</th>
<th>Missing Experts</th>
<th>Total adepts for Education</th>
<th>Final number of Experts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>?</td>
<td>-</td>
<td>100.000</td>
<td>100.000</td>
<td>100.000</td>
</tr>
<tr>
<td>Japan</td>
<td>265.000</td>
<td>160.000</td>
<td>80.000</td>
<td>240.000</td>
<td>345.000</td>
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<tr>
<td>South Korea</td>
<td>?</td>
<td>-</td>
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<td>5.000</td>
<td>?</td>
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<tr>
<td>UK</td>
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<td>-</td>
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<tr>
<td>USA</td>
<td>350.000</td>
<td>-</td>
<td>40.000</td>
<td>40.000</td>
<td>390.000</td>
</tr>
</tbody>
</table>


* Only for government
The Czech Republic

- **Security Education or Certified knowledge**
  - 2.3% employees
  - 1.8% government employees (2,880)
  - 9.8% employees in TELCO sector

- **Security Awareness**
  - 3.3% employees
  - 40% companies support to increase security awareness of their employees (Source: PSIB 2009)

Source: CSO © 2012

Up to 12,800 government employees need additional training or education
NATO & EU

- European Union - ENISA
  - Roadmap for NIS education programmes in Europe
  - Cyber Security Month

- NATO
  - NCISS – Seminars, Courses
  - NATO CCD COE Tallinn – Seminars, Workshops
  - NATO COE DAT Ankara – Seminars
<table>
<thead>
<tr>
<th>Title</th>
<th>URL</th>
<th>Provider</th>
<th>Platform</th>
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</thead>
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<tr>
<td>IT Security</td>
<td><a href="http://www.opencourseworld.de/pages/coursedescription.jsf?courseid=485951">http://www.opencourseworld.de/pages/coursedescription.jsf?courseid=485951</a></td>
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<td>OpenCourseWorld</td>
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<td>Malicious Software and its Underground Economy: Two Sides to Every Story</td>
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<td>Coursera</td>
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<td>Coursera</td>
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<tr>
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<td><a href="https://www.futurelearn.com/courses/introduction-to-cyber-security">https://www.futurelearn.com/courses/introduction-to-cyber-security</a></td>
<td>The Open University</td>
<td>FutureLearn</td>
</tr>
</tbody>
</table>
AFCEA International Offers

- Cyber Awareness
  - Seminars
  - Conferences
  - Theoretical and practical exercises
  - Live demonstrations

- Professional Development courses
  - On-site courses
  - On-line courses
AFCEA International Offers

- Cooperative programs with
  - American Military University
  - Capella University
  - Carnegie Mellon (Discounts)
  - John Hopkins University (Discounts)
  - National Cyber Institute at Excelsior College (Discounts)
  - SANS Institute
  - UMBC Training Centre (10% Discount)
  - University of Maryland (Discounts up to 25%)
  - Etc.
Cyber Security Education

- Bachelor’s programs
- Masters programs
- Associate degrees
- MBA programs
- PhD. programs
- Undergraduate certifications
- Graduate certifications
Cyber Security Certifications

- Cybersecurity Policy
- Cybersecurity Technology
- Digital Forensics and Cyber Investigation
- Foundations of cybersecurity
- Cybercrime Essentials
- Homeland Security Management
- Information Assurance
- Ethical Hacking (CEH)
- Computer Hacking Forensics Investigator (CHFI)

- CISSP
- Network and Packet Analysis
- Intelligence Analysis
- Cyber Terrorism
- Information Assurance
- Etc.
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