

e-ID Academy - e-Passport Training Courses



e-Passport Training Course

Collis' e-ID Academy provides specialised e-Passport Training Courses. Attendees are trained by Collis' experienced trainers. All trainers are e-ID (electronic identification) experts with years of hands-on experience. Combined with clear training objectives and easy to understand training materials, Collis helps you build the e-ID knowledge you require.

Collis is a leading provider of expertise to all parties involved in e-ID programs. Collis offers a unique combination of training courses, consulting services and testing tools: key success factors for successful migration to an electronically enabled ID infrastructure.

The e-Passport training program is divided into an Introductory Course and an in-depth Expert Course. The course's interactive program combines theory and practice and is fully up-to-date.

Benefit from Collis' expert e-Identification knowledge and attend the next e-Passport Training Course!

Open Training Course

Collis' Open Training Courses will be held several times each year in Europe, Asia and North America. The Open Training Courses are open for anyone who wants to learn more about e-Passports. The e-Passport Open Training program takes place in 1.5 days. Details about the next open training courses are summarised in the Course Information Summary below.

For other 2010 course dates, please email us at: training@collis.nl

In-House Course

For several participants from the same company, an in-house customised course could be the better option. Not only is this cheaper per attendee, Collis keeps the attention & focus on your organisation's current status.

For a customised offer, please contact Collis' e-ID Academy by calling +31 71 581 3636 or by sending an email to: training@collis.nl.

Course Information Summary

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Course Outline



The e-Passport training courses are hosted by one of Collis' experienced trainers. Collis' trainers bring with them a wealth of experience, case studies and best practises for all aspects of e-Passports. Unlike any other, they possess the skills to explain e-Passports and the technology involved in terms of technical consequences, impact on your business and that of your customers, strategic planning and future developments.

Our trainers have personally managed many of Collis' e-ID projects in countries all over the world. Collis' e-Passport training courses are not just a 'broadcast' of e-Passport theory to customers, but an interactive exploration of the passport industry looked at from a perspective where e-Passport is not a goal, but a means of achieving electronic identification, seamless interoperable travel and more.

Introductory Course

The first day is an introduction to the e-Passport and is suitable for people with a business focus and/or a more technical oriented focus. On this day it will be made clear why an e-Passport is needed, what an e-Passport is, how it works from a functional point of view (No technical details) and the impact of the e-Passport on the issuing and border control process.

Duration: 0.5 day



Expert Course

The Expert Course goes deep into the technical details of the e-Passport. In this course, contactless smartcard technology, cryptography and e-Passport security will be explained. For e-Passport security, the main focus will be on the e-Passport security measures specified by ICAO including Basic Access Control, Extended Access Control, Passive Authentication and Active Authentication.

Duration: 1 day

Customised Course (in-house)

For Customised Courses, Collis provides a focus on industry specific matters facing your organisation whether passport issuing, personalisation or others. More time is available to incorporate company specific aspects of e-Passports and specific questions or discussion of scenarios.

Duration: Customised to requirement



e-ID Trainer Profiles



Christian Brafine M.Sc - Manager e-ID Competence Centre

Christian Brafine is the Manager of Collis' e-ID Competence Centre. With years of experience as a senior consultant and a project manager, he has extensive knowledge of smart card technology and has worked on cutting-edge technology projects in the Government sector. Amongst many prestigious projects, Christian has been leading the implementation of the Dutch Inspection System for the European Digital Tachograph. He has been involved in numerous e-ID projects on e-Passport, e-Ticketing and National e-ID cards for several European Member States. Christian holds a Master's Degree in Computer Science and Telecommunications.

Arjan Geluk BBA - e-ID Business Development Manager

Arjan Geluk's knowledge about the e-Passport system, infrastructure, processes and technology is backed with many years of experience in smart card based EMV payment and the European Digital Tachograph. Arjan has led e-Passport and e-ID test projects since 2004. He represents Collis in ISO SC17 and on smart card conferences all over the world and was an official tester on the e-Passport InterFest in Singapore (2005). He has been a speaker at events like the Visa AP Risk Management Conference and World e-ID and is a published author in global publications such as ID World and Keesing Journal of Documents & Identity.



David Bakker M.Sc - e-ID Consultant

David Bakker has several years of experience in testing smart cards and terminals, both in the field of banking (EMV) and in e-Identification (e-Passport, Digital Tachograph, public transportation). His expertise includes the development of testing tools as well as carrying out tests and consulting activities in the area of testing smart cards. As a trainer, David has developed and delivered technical training on the e-Passport and the European Digital Tachograph. He graduated in Physics from Leiden University and joined Collis in 2004.



Jos Chehin M.Sc - e-ID Consultant

Jos Chehin has been involved as an e-ID consultant on e-Passport test projects for several European Member States. Jos has gained valuable hands-on experience in multiple e-Passport and e-ID projects. Jos has done extensive research on e-Passport conformance test standards. A Graduate in Economics and Computer Science, and possessing in-depth e-Passport knowledge, Jos is able to highlight many possible challenges and answer specific questions you may have.



e-ID Course Program Guide

The e-Passport Open Training Course is a 1.5 day course, and follows the program as detailed below. In-House Courses include Open Training Course content, but the duration is based upon customer requirements.

e-Passport Introductory Course (day 1)

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| 13.00 - 13.15 | Introduction |
| 13.15 - 13.45 | The Evolution of the Passport
This presentation can be roughly divided into three parts: the history, the current situation and the future of the e-passport. The first part explains the standardisation history of the passport and the role of ICAO in setting passport standards. This part of the presentation clarifies the need for passport standards and the need for a more secure e-Passport. In the second part of the presentation, an overview is given of the countries already issuing e-Passports and those planning to issue e-Passports. In the third part, the future of the e-Passport will be discussed. What are the future possibilities with the e-Passport and how realistic are these? |
| 13.45 - 14.30 | The Border Control Process
“Pass”ing the “port” with the immigration officer’s confidence and the travellers’ convenience is at the heart of border control. In this presentation, the differences between traditional border control and the e-Passport inspection process will be explained. Amongst these differences are the use of biometric identification of the traveller and electronic authentication of the document. As visas are part of the border control process, the types of e-visas that are under consideration by ICAO will also be discussed during this presentation. |
| 14.30 - 14.45 | Coffee break |
| 14.45 - 15.30 | The ICAO e-Passport Specifications (LDS)
In this presentation a short introduction will be given of the most important aspects of the e-Passport, which are defined in the ICAO standard Doc 9303. These aspects include biometrics, the contact-less chip for secure data storage and exchange, as well as the formatting of biometric and security information in the Logical Data Structure (LDS). At the end of this module, the trainer will demonstrate reading an e-Passport, after which the contents will be analysed and discussed. |
| 15.30 - 16.15 | The ICAO e-Passport Security Features (PKI)
This presentation explains in clear, non-technical terms how the data stored on the chip is secured against fraud. The why and how of the four security mechanisms specified in the PKI section of ICAO doc 9303, Passive Authentication, Active Authentication, Basic Access Control and Extended Access Control, are central in this presentation. |
| 16.15 - 17.00 | The e-Passport Issuing Process
During this presentation an overview will be given of the traditional passport issuing process as well as the additional steps that need to be taken into consideration when issuing e-Passports. The biometric capturing process & the personalisation of the digital data are good examples of new e-Passport issuing processes. More insight will be given into these new processes and the relevant standards and guidelines. |
| 17.00 - 17.15 | Questions - Round Up - Closure Day 1 |

e-ID Course Program Guide

e-Passport Expert Course (day 2)

- 9.00 - 9.15** **Recap Day 1**
Brief recapitulation of the topics covered during the first day of the workshop.
- 9.15 - 10.30** **Smartcard Technology**
This presentation explains the contactless smartcard technology, which is used by the e-Passport. In technical detail, the inside of a contactless smartcard will be explained. Contactless communication, smartcard operations and commands are central during this presentation.
- 10.30 - 10.45** **Coffee break**
- 10.45 - 12.00** **Cryptography**
In this presentation, cryptography will be explained in technical detail. Symmetric and asymmetric cryptography, public and private keys, signing and certificates are some of the cryptography terms that will be explained during this presentation.
- 12.00 - 13.00** **Lunch**
- 13.00 - 14.30** **e-Passport Security**
With the knowledge gained in the Cryptography presentation, a step can be made towards explaining how this is applied in for e-Passports. In this presentation, the e-Passport security measures will be explained in technical detail. This presentation includes Basic Access Control, Extended Access Control, Passive Authentication, Active Authentication, Public Key Directory and also an explanation of attacks done on these security measures.
- 14.30 - 14.45** **Coffee break**
- 14.45 - 16.45** **Exercises**
During this session, the attendees will carry out several rehearsal exercises on topics such as smartcard technology, cryptography and e-Passport security.
- 16.45 - 17.00** **Questions - round up - closure day 2**



Collis Netherlands Head Office

About Collis

Collis' unique combination of Consulting Services, Testing Tools, Testing Services and Training Courses offers you a one-stop solution provider. Collis provides clear, comprehensive solutions for your business ICT challenges.

Collis is the leading global competence centre in the design and testing of smart card based electronic transaction systems. Collis has delivered significant contributions to the EMV, e-Identification and Mobile markets for over a decade. Established in 1997, Collis employs 120+ highly skilled and experienced professionals. Collis headquarters are based in Leiden, The Netherlands. In April 2006, Collis opened its Asian subsidiary in Singapore and acquired Aspects Tools in Edinburgh. Collis' consultants work on projects for large international companies and are based from Amsterdam to Riyadh, Cairo to Taipei, and from Johannesburg to Sydney.

Visit www.collis.nl for more information.