

EMV Training Course Chicago, USA ~ 7 - 9 April 2025

Delivered by EMV experts to give your team the knowledge they need to make your EMV work successful

The Barnes International EMV training course takes 3 days.

We normally train up to 10 - 15 persons in the course, since this allows for fuller discussions in a less formal environment.

The cut-off point for each day will be dependent on the amount of discussion and debate generated by the sessions. Clients are provided with a detailed insight in the key aspects surrounding EMV chip card issuance and implementation.

The Barnes CPT 3000v3 EMV Chip Card Personalisation Validation Test Tool is used during the EMV training course to provide practical examples and demonstrations of EMV transactions and associated data elements. It also provides a basis for further discussion of personalisation issues.

Who should attend it?

This course is suitable for any personnel who need a thorough grounding in EMV chip card technology, including:

- Business Analysts
- EMV Project Managers
- System Support & Development
- Fraud & Customer Service
- IT Security Specialists

Service Highlights

- ${f igsidem S}$ The standard course comprises 6 modules and takes 3 days.
- The course includes a manual for each attendee, containing all slides and related documentation, a certificate, a notepad, a pen and a USB key. Water, Coffee Breaks and Lunch are included.
- The course will take place in a 5* Hotel in Chicago, USA. *Please note that the course location will be announced nearer the training dates.*
- Our EMV trainers have gained a reputation for being able to translate the complex technical world of chip and EMV into a more understandable business language, assisting organisations to climb the steep learning curve, thus reducing project time scales and costs. They all have extensive experience and have all worked in the Smart card industry since at least 1999.





JСВ

DISCVER



THE BARNES ADVANTAGE

Barnes is the chosen test tool of Banks & Issuers, Card Manufacturers, **Personalisation Bureaus** and Test Laboratories worldwide.

BUSINESS AGILITY

Barnes test tools are easy to use by both technical and non-technical users, and speed up card development and payment scheme certification.

COST ELIMINATION

The high business costs and wasted resources of producing and issuing invalid cards are eliminated.

RISK REDUCTION

The reputational risk of issuing invalid EMV cards to end customers is reduced.

FUTURE PROOFED

Barnes works in partnership with all major payment schemes. As scheme rules evolve, Barnes rapidly makes updated test script packs available to customers via the Barnes website.

SERVICE EXCELLENCE

Our clients have every confidence that, whatever their test requirement, the Barnes team is always onhand to deliver expert advice and fast support.



EMV Training Outline

Module 1: EMV Overview

This module provides the necessary background to the course, emphasising the business drivers behind EMV developments.

- Magnetic stripe card/signature legacy Rationale of EMV & EMVCo
- High-level functions & requirements •
- Range of EMV specifications (contact & contactless)
- **Certification & Type Approval**
- Role of the Payment Systems (Card Schemes)
- Current & Future developments

Module 2: EMV Transaction Flow This module looks at a typical EMV transaction, covering both the functions carried out, and the way that, by setting parameter values, the issuer can control the transaction.

- Sequence of functional steps in a transaction
- Step-by-step transaction flow
- EMV parameters and their usage
- Examples from CPT3000v3 test tool
- Issuer host processing of EMV transaction data

Module 3: EMV Card Applications (contact & contactless)

This module examines the appropriate card applications, focusing on the application-specific features and parameters.

- Applications covered Visa VSDC qVSDC and Mastercard M/Chip. American Express and/or Discover can be covered upon request.
- Application-specific parameters & their usage – with examples
- Transaction flow (application-specific processes)
- Discussion on parameter settings\

Module 4: EMV Cryptography & Key Management

Cryptography plays an essential role in protecting EMV transactions and reducing losses. This module shows what lies behind the high level of EMV security.

- Symmetric & Asymmetric Key Cryptography Óverview
- Symmetric & Asymmetric Key Management
- EMV Symmetric Key functions (card-to-issuer host)
- ÈMV Asymmetric/Públic Key functions • (card-to-terminal)
- ÈMV SDA, DDA and CDA Authentication processes
- Cryptography for Offline PIN Encipherment •

Module 5: EMV Card Personalisation

In order to maximise the benefits of EMV, it is necessary to be sure that the card data is appropriately personalised to reflect the requirements of the card product, the card acceptance environment, the risks involver and the issuer host systems capabilities.

- Magnetic Stripe Card Personalisation Overview •
- EMV Chip Card Personalisation Overview •
- Personalisation Process Overview • •
 - Issuance models
- EMV Card Testing Overview •

Module 6: EMV Card Perso Testing The functions and benefits of card personalisation testing are explored, using the Barnes CPT 3000v3 card personalisation validation tool to provide examples and live demonstrations. Analysing the test tool results uses knowledge acquired from the previous modules of the course.

- Introduction to the Barnes EMV Card Validation Tool
- Home screen, Operations and Test Reports
- . Test Demonstrations & Reviews
- Intro to Test Scenarios & Parameters

Special Discounts Available

- Early-Bird Discount
- **Group Discount**

Places are limited to 15 attendees. Book your seat(s) now - contact us at marketing@barnestest.com

Barnes International Limited

Email Tel Web





- +