

ATM Fault Diagnosis

19 – 23 October 2026
Paris (France)

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Introduction

ATM fault diagnosis is a critical competency for financial institutions and service providers seeking to maintain high system availability, minimize downtime, and ensure uninterrupted customer service. As Automated Teller Machines become more sophisticated, troubleshooting requires a comprehensive understanding of hardware components, software platforms, communication networks, security controls, and cash management systems.

This course provides a structured and practical approach to identifying, analyzing, and resolving faults affecting ATM operations. Participants will learn how to diagnose failures across hardware devices, operating systems, ATM applications, and network infrastructure using systematic troubleshooting methodologies and root cause analysis techniques.

The program also addresses critical operational areas such as cash loading procedures, balancing and reconciliation processes, incident response, security threat detection, and compliance requirements. Participants will gain practical experience in interpreting error codes, analyzing event logs, isolating faults, and implementing corrective actions that reduce service interruptions and improve operational reliability.

In addition, the course explores ATM deployment, installation, commissioning, maintenance planning, and decommissioning procedures. Through practical scenarios and real-world case studies, participants will develop the technical skills necessary to diagnose complex ATM issues and maintain high levels of service performance across ATM networks.

Course Objectives

By the end of this course, participants will be able to:

A graphic featuring a chessboard with several chess pieces (a king, a queen, and a pawn) in the foreground. In the background, there are concentric circles radiating from a point, creating a sense of depth. The text 'UK Training' is in a small, black sans-serif font, and 'PARTNER' is in a large, bold, black sans-serif font.

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- Apply systematic methodologies for ATM fault diagnosis.
- Identify root causes of recurring operational failures.
- Diagnose hardware-related faults in ATM systems.
- Troubleshoot software and application-related issues.
- Analyze and resolve network connectivity problems.
- Interpret ATM error messages and event logs.
- Troubleshoot cash dispensing and deposit module failures.
- Evaluate communication issues between ATMs and host systems.
- Perform cash loading, balancing, and reconciliation procedures.
- Implement ATM security controls and incident response measures.
- Detect common fraud techniques and security threats.
- Support ATM installation, commissioning, and decommissioning activities.
- Document fault analysis and corrective actions effectively.
- Improve ATM availability and operational performance.
- Reduce downtime through proactive troubleshooting practices.

Course Outlines

Day 1: Hardware Fault Diagnosis and Component Troubleshooting

- Overview of ATM hardware architecture and subsystem interactions.
- Structured fault diagnosis methodologies.
- Troubleshooting cash dispenser failures.
- Diagnosing card reader and card retention issues.
- Printer and receipt module fault analysis.
- Sensor and detection device troubleshooting.
- Power supply and electrical fault diagnostics.
- Practical exercises on common hardware failures.

Day 2: Software and Application Fault Diagnosis

- Understanding ATM software architecture.
- Interpreting system error messages and alerts.
- Event log analysis and troubleshooting techniques.
- Diagnosing operating system failures.
- Resolving ATM application issues.
- Software patch management and version control.
- Troubleshooting host communication and transaction failures.
- Practical exercises using software fault scenarios.

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Day 3: Network Connectivity and Communication Troubleshooting

- ATM communication infrastructure and connectivity models.
- Diagnosing network-related failures.
- Troubleshooting communication with central systems.
- Network testing and monitoring tools.
- Router, modem, and communication device diagnostics.
- Data transmission error analysis.
- Network performance evaluation and optimization.
- Practical troubleshooting scenarios involving connectivity outages.

Day 4: Cash Management and ATM Security Operations

- Cash cassette loading procedures and controls.
- Cash balancing and reconciliation practices.
- Diagnosing cash dispensing discrepancies.
- Troubleshooting cash jams and currency handling issues.
- ATM security architecture and controls.
- Identifying skimming devices and fraud attempts.
- Data protection and encryption requirements.
- Security incident response and investigation procedures.

Day 5: ATM Deployment, Operational Readiness, and Advanced Fault Resolution

- ATM site planning and deployment considerations.
- Installation and commissioning procedures.
- Operational readiness testing and validation.
- Compliance and operational documentation requirements.
- ATM shutdown and decommissioning procedures.
- Preventive maintenance planning and execution.
- Integrated troubleshooting case studies.
- Final assessment based on real operational scenarios.

Why Attend This Course: Wins & Losses!

- Improve fault diagnosis accuracy and troubleshooting efficiency.
- Reduce ATM downtime and service interruptions.
- Strengthen hardware, software, and network troubleshooting capabilities.
- Enhance root cause analysis skills.
- Improve operational reliability and system availability.
- Develop stronger ATM security awareness.
- Enhance cash management and reconciliation competencies.
- Improve incident response and problem resolution processes.
- Strengthen technical reporting and documentation skills.
- Support compliance with operational and security requirements.

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board, with 'UK Training' in a smaller font and 'PARTNER' in a large, bold, black font.

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Conclusion

ATM systems are essential components of modern banking operations, and their reliability directly impacts customer satisfaction, operational efficiency, and business continuity. Effective fault diagnosis plays a crucial role in ensuring that ATM networks remain available, secure, and capable of delivering uninterrupted services.

This course provides a comprehensive framework for diagnosing and resolving faults across hardware components, software applications, communication networks, cash handling systems, and security infrastructure. Participants learn how to apply structured troubleshooting methodologies, perform root cause analysis, and implement corrective actions that improve operational performance and reduce service disruptions.

The program also addresses key operational requirements such as cash management, security incident response, ATM deployment, preventive maintenance, and compliance obligations. By combining technical knowledge with practical exercises and real-world case studies, participants gain valuable experience in managing the complex environments in which ATM systems operate.

Upon completion, participants will be equipped with the skills necessary to identify faults quickly, restore services efficiently, improve ATM availability, and contribute to more reliable and secure banking operations.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The board is checkered, and there are concentric circles in the background.