

# Course Outline

Security Center – AutoVu Fixed 5.2 Technical Certification	
<b>Code</b>	SC-AFC-001 (5.2)
<b>Duration</b>	2 days
<b>Target audience</b>	Technicians, Administrators, and IT Professionals
<b>Prerequisites</b>	CompTIA's Network+ training (or equivalent) is recommended. An online IT skills quiz is available to ensure baseline IT skills are met
<b>Objectives</b>	<p>Upon successful completion of this course the participant will be able to:</p> <ul style="list-style-type: none"><li>• Understand License Plate Recognition (<b>LPR</b>) technology fundamentals and mechanics</li><li>• Understand basic of License Plate Matching and current Optical Character Recognition (<b>OCR</b>) challenges</li><li>• Install and configure a basic Security Center system with Video and LPR capabilities</li><li>• Configure Genetec LPR cameras and use embedded advanced features (Region of Interest)</li><li>• Create and configure lists of vehicles to match License Plate Reads against</li><li>• Create interoperability with third party applications using Macros, SDK or XML tools</li><li>• Understand redundancy and failover options within Security Center</li><li>• Design a reliable and scalable Security center LPR system.</li><li>• Perform system maintenance and troubleshooting.</li><li>• Perform site survey and camera positioning for optimal reading accuracy</li></ul>
<b>Certification</b>	An open-book, multiple choice exam will be given at the end of this course

Topic	Description
<b>Module 1: Introduction</b>	<ul style="list-style-type: none"> <li>• Intro to Genetec &amp; Security Center</li> <li>• History of the LPR technology and current challenges</li> <li>• Fundamentals of LPR technology</li> <li>• Current Applications of the technology</li> <li>• Case studies</li> <li>• Client Installation</li> </ul>
<b>Module 2: LPR Hardware</b>	<ul style="list-style-type: none"> <li>• Presentation of the Genetec LPR Hardware</li> <li>• Fixed Sharp Cameras</li> <li>• Mobile Cameras</li> <li>• Illuminations, lenses</li> <li>• Navigation hardware, MDT</li> <li>• Other LPR related components</li> </ul>
<b>Module 3: Security Center Architecture</b>	<ul style="list-style-type: none"> <li>• Intro to Security Center Role Architecture</li> <li>• Server Admin &amp; License Activation</li> <li>• Expansion Servers</li> <li>• Connection client/server</li> </ul>
<b>Module 4: LPR Manager Configuration &amp; administration</b>	<ul style="list-style-type: none"> <li>• Installation of the LPM Role</li> <li>• Comprehensive configuration of the Role</li> <li>• Root folder / Database management</li> </ul>
<b>Module 5: User Management for LPR</b>	<ul style="list-style-type: none"> <li>• Users, User groups &amp; Partitions</li> <li>• Privileges for the LPM / Patrollers</li> <li>• Best practice</li> </ul>
<b>Module 6: LPR Camera Software Configuration</b>	<ul style="list-style-type: none"> <li>• New Sharp Portal User Interface</li> <li>• Configuration of Regions of Interest</li> <li>• Read Strategy Discussion</li> <li>• Firmware Updates and Plugins</li> <li>• Connectivity Options</li> <li>• Adding LPR cameras</li> </ul>
<b>Module 7: License Plate Matching</b>	<ul style="list-style-type: none"> <li>• License plate matching discussion</li> <li>• Implementation of a hotlist</li> <li>• Matching process and OCR equivalences</li> <li>• Event-to-action Handler</li> </ul>

Topic	Description
<b>Module 8: Security Center Interoperability</b>	<ul style="list-style-type: none"> <li>• Data export to third party system using XML</li> <li>• Data import from a third party system using XML</li> <li>• LPR device FTP mode</li> <li>• Macros &amp; SDK for custom integration</li> </ul>
<b>Module 9: System Design (Fixed)</b>	<ul style="list-style-type: none"> <li>• Understanding the requirements of an LPR system</li> <li>• Selecting the appropriate hardware</li> <li>• Physical Install consideration</li> <li>• Camera positioning</li> <li>• Network and database requirements discussion</li> <li>• Scenario and available integration tools</li> </ul>
<b>Module 10: Maintenance and Troubleshooting</b>	<ul style="list-style-type: none"> <li>• Security Center General Troubleshooting</li> <li>• Access the Security Center Console</li> <li>• Sharp Diagnostics page</li> <li>• GTAP</li> </ul>
<b>SC-AFC-001 Exam</b>	<ul style="list-style-type: none"> <li>• Open Book / multiple Choice + Open questions</li> <li>• 80% to pass</li> <li>• 1 hour</li> </ul>