

# Course Outline

Security Center: System Hardening Certification	
<b>Code</b>	SC-SHC-001 (5.x)
<b>Level</b>	Intermediate
<b>Duration</b>	6 hours
<b>Target audience</b>	Technicians, Administrators, and IT Professionals
<b>Prerequisites</b>	Any base-level Security Center Technical course (SC-OTC-001, SC-STC-001, SC-AFC-001, SC-AFS-001, SC-AMC-001)
<b>Objectives</b>	<p><u>Upon successful completion of this course the participant will be able to:</u></p> <ul style="list-style-type: none"><li>• Understand cybersecurity requirements</li><li>• Understand multiple layers of protection in Security Center</li><li>• Identify vulnerabilities at all levels of an Access Control System's architecture and configure a secure alternatives</li><li>• Identify vulnerabilities at all levels of a Video Management System's architecture and configure a secure alternatives</li><li>• Understand security considerations of the IT environment</li><li>• Understand and configure security features of the core SC system</li><li>• Understand and configure security features of connected systems</li></ul>
<b>Certification</b>	A certification Exam will be given at the end of this course.

Topic	Description
<b>Module 1:</b> <i>Introduction</i> (30 min)	<ul style="list-style-type: none"> <li>• Intro to Genetec</li> <li>• Physical security &amp; Cybersecurity</li> <li>• VMS threats</li> <li>• ACS threats</li> </ul>
<b>Module 2:</b> <i>Multi-layered model</i> (30 min)	<ul style="list-style-type: none"> <li>• Multiple protection layers</li> <li>• Authentication</li> <li>• Authorization</li> <li>• Encryption overview</li> </ul>
<b>Module 3:</b> <i>Practical Hardening Tools - Hardware</i> (2 hours)	<ul style="list-style-type: none"> <li>• Vulnerabilities of the ACS's &amp; VMS's architecture</li> <li>• Secure architecture</li> <li>• Proximity Vs. Smart cards</li> <li>• Card Security Levels</li> <li>• OSDP</li> <li>• TLS authentication &amp; certificate</li> <li>• Synergis Cloud Link</li> </ul>
<b>Module 4:</b> <i>Practical Hardening Tools - Software</i> (2 hours)	<ul style="list-style-type: none"> <li>• IT Environment</li> <li>• Core SC System             <ul style="list-style-type: none"> <li>○ User management</li> <li>○ System</li> <li>○ Video</li> <li>○ Access Control</li> </ul> </li> <li>• Connected Systems             <ul style="list-style-type: none"> <li>○ Security Center Mobile</li> <li>○ Global Cardholder Synchronizer</li> <li>○ Windows Active Directory Integration</li> <li>○ ADFS Claims Based Authentication</li> <li>○ Federation Account Restrictions</li> <li>○ Directory Gateway</li> </ul> </li> </ul>
<b>Module 5:</b> <i>Protection</i> (1 min)	<ul style="list-style-type: none"> <li>• General Data Protection Regulation (GDPR)</li> <li>• Kiwi Security Privacy Protector</li> </ul>
<b>SC-SHC-001 Exam</b> (1 hour)	<ul style="list-style-type: none"> <li>• Exam</li> <li>• Passing grade: 80%</li> <li>• 1 hour</li> </ul>