

**ITMS 443 RUBRIC****ITMS 443 Vulnerability Analysis and Control**

Students may be scored on a scale of 1 to 5; scores of 2 and 4 may be interpolated.

<b>Program Educational Objectives</b>				
<b>Objective</b>	<b>Score ▶</b>	<b>5</b>	<b>3</b>	<b>1</b>
<i>Design and implement an enterprise security program using policy, technology, and awareness to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions</i>		The student is consistently able to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions	The student is generally able to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions	The student is unable to implement appropriate controls and technically secure enterprise information assets and resources to deter, detect, and prevent the success of attacks and intrusions
<b>Course student outcomes</b> Upon completion of this course the student should be able to do the following:				
<b>Outcome</b>	<b>Score ▶</b>	<b>5</b>	<b>3</b>	<b>1</b>
<i>Explain the professional hacker's methodology for attacking a network</i>		The student is able to explain the professional hacker's methodology for attacking a network accurately and in detail	The student is able to explain the professional hacker's methodology for attacking a network with some omissions or inaccuracies	The student is unable to explain the professional hacker's methodology for attacking a network
<i>Explain the script kiddie's methodology for attacking network</i>		The student is able to explain the script kiddie's methodology for attacking a network accurately and in detail	The student is able to explain the script kiddie's methodology for attacking a network with some omissions or inaccuracies	The student is unable to explain the script kiddie's methodology for attacking a network
<i>Describe Network Security vulnerabilities</i>		The student is able to describe Network Security vulnerabilities accurately and in detail	The student is able to describe Network Security vulnerabilities with some omissions or inaccuracies	The student is unable to describe Network Security vulnerabilities
<i>Explain Hackers, hacker techniques, tools and methodologies</i>		The student is able to explain Hackers, hacker techniques, tools and methodologies accurately and in detail	The student is able to explain Hackers, hacker techniques, tools and methodologies with some omissions or inaccuracies	The student is unable to explain Hackers, hacker techniques, tools and methodologies
<i>Describe hacker motivation</i>		The student is able to describe hacker motivation accurately and in detail	The student is able to describe hacker motivation with some omissions or inaccuracies	The student is unable to describe hacker motivation
<i>Perform network reconnaissance and network scanning methods</i>		The student is consistently able to perform network reconnaissance and network scanning methods	The student is often able to perform network reconnaissance and network scanning methods	The student is unable to perform network reconnaissance and network scanning methods
<i>Describe and perform covering tracks after gaining access to a network</i>		The student has clearly demonstrated their ability to cover their tracks after gaining access to a network	The student has adequately demonstrated their ability to cover their tracks after gaining access to a network	The student is unable to describe how to or to cover their tracks after gaining access to a network
<i>Describe the general symptoms of a virus attack</i>		The student is able to describe the general symptoms of a virus attack accurately and in detail	The student is able to describe the general symptoms of a virus attack with some omissions or inaccuracies	The student is unable to describe the general symptoms of a virus attack
<i>Define and describe the two basic approaches to antivirus software</i>		The student is able to define and describe the two basic approaches to antivirus software accurately and in detail	The student is able to define and describe the two basic approaches to antivirus software with some omissions or inaccuracies	The student is unable to define and describe the two basic approaches to antivirus software
<i>Describe how to defend against a worm and virus attack</i>		The student is able to describe how to defend against a worm and virus attack accurately and in detail	The student is able to describe how to defend against a worm and virus attack with some omissions or inaccuracies	The student is unable to describe how to defend against a worm and virus attack
<i>Describe the steps in planning for a computer incident</i>		The student is able to describe the steps in planning for a computer incident accurately and in detail	The student is able to describe the steps in planning for a computer incident with some omissions or inaccuracies	The student is unable to describe the steps in planning for a computer incident
<i>Identify and describe incident response goals and priorities</i>		The student is able to identify and describe incident response goals and priorities accurately and in detail	The student is able to identify and describe incident response goals and priorities with some omissions or inaccuracies	The student is unable to describe identify and describe incident response goals and priorities
<i>Describe how to handle and evaluate a computer incident</i>		The student is able to describe how to handle and evaluate a computer incident accurately and in detail	The student is able to describe how to handle and evaluate a computer incident with some omissions or inaccuracies	The student is unable to describe how to handle and evaluate a computer incident
<i>Describe and use the various tools associated with identifying an intruder</i>		The student is able to describe and use the various tools associated with identifying an intruder accurately and in detail	The student is able to describe and use the various tools associated with identifying an intruder with some omissions or inaccuracies	The student is unable to describe and use the various tools associated with identifying an intruder
<i>Identify the difficulty in establishing who has jurisdiction over a computer crime</i>		The student is able to identify the difficulty in establishing who has jurisdiction over a computer crime accurately and in detail	The student is able to describe identify the difficulty in establishing who has jurisdiction over a computer crime with some omissions or inaccuracies	The student is unable to describe identify the difficulty in establishing who has jurisdiction over a computer crime

Outcome	Score ►	5	3	1
<i>Describe the legal issues with regard to preserving digital evidence</i>		The student is able to describe the legal issues with regard to preserving digital evidence accurately and in detail	The student is able to describe the legal issues with regard to preserving digital evidence with some omissions or inaccuracies	The student is unable to describe the legal issues with regard to preserving digital evidence
<i>Explain the role of law enforcement and rule of particularity in executing a search warrant</i>		The student is able to explain the role of law enforcement and rule of particularity in executing a search warrant accurately and in detail	The student is able to explain the role of law enforcement and rule of particularity in executing a search warrant with some omissions or inaccuracies	The student is unable to explain the role of law enforcement and rule of particularity in executing a search warrant
<i>Describe the role a network security specialist would play in assisting the law enforcement and prosecution effort</i>		The student is able to describe the role a network security specialist would play in assisting the law enforcement and prosecution effort accurately and in detail	The student is able to describe the role a network security specialist would play in assisting the law enforcement and prosecution effort with some omissions or inaccuracies	The student is unable to describe the role a network security specialist would play in assisting the law enforcement and prosecution effort
<i>Describe the difficulties in prosecuting a computer crime incident</i>		The student is able to describe the difficulties in prosecuting a computer crime incident accurately and in detail	The student is able to describe the difficulties in prosecuting a computer crime incident with some omissions or inaccuracies	The student is unable to describe the difficulties in prosecuting a computer crime incident
<i>Differentiate between competitive intelligence, economic intelligence, and industrial espionage</i>		The student is able to differentiate between competitive intelligence, economic intelligence, and industrial espionage accurately and in detail	The student is able to differentiate between competitive intelligence, economic intelligence, and industrial espionage with some omissions or inaccuracies	The student is unable to differentiate between competitive intelligence, economic intelligence, and industrial espionage
<i>Apply security principles and practices to maintain operations in the presence of risks and threats</i>		The student has clearly demonstrated their ability to apply security principles and practices to maintain operations in the presence of risks and threats	The student has demonstrated to some extent their ability to apply security principles and practices to maintain operations in the presence of risks and threats	The student is unable to demonstrate an ability to apply security principles and practices to maintain operations in the presence of risks and threats