

Certified Network Defender

Lab Manual

EC-Council

Copyright © 2016 by EC-Council. All rights reserved. Except as permitted under the Copyright Act of 1976, no part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written permission of the publisher, with the exception that the program listings may be entered, stored, and executed in a computer system, but they may not be reproduced for publication.

Information has been obtained by EC-Council from sources believed to be reliable. EC-Council uses reasonable endeavors to ensure that the content is current and accurate, however, because of the possibility of human or mechanical error we do not guarantee the accuracy, adequacy, or completeness of any information and are not responsible for any errors or omissions or the accuracy of the results obtained from use of such information.

The courseware is a result of extensive research and contributions from subject matter experts from the field from all over the world. Due credits for all such contributions and references are given in the courseware in the research endnotes. We are committed towards protecting intellectual property. If you are a copyright owner (an exclusive licensee or their agent), and if you believe that any part of the courseware constitutes an infringement of copyright, or a breach of an agreed licence or contract, you may notify us at legal@eccouncil.org. In the event of a justified complaint, EC-Council will remove the material in question and make necessary rectifications.

The courseware may contain references to other information resources and security solutions, but such references should not be considered as an endorsement of or recommendation by EC-Council.

Readers are encouraged to report errors, omissions and inaccuracies to EC-Council at legal@eccouncil.org.

If you have any issues, please contact support@eccouncil.org.

Table of Contents

Module Number	Module Name	Page No.
01	Computer Network and Defense Fundamentals	01
02	Network Security Threats, Vulnerabilities, and Attacks	31
03	Network Security Controls, Protocols, and Devices	37
04	Network Security Policy Design and Implementation	98
05	Physical Security	-
06	Host Security	105
07	Secure Firewall Configuration and Management	228
08	Secure IDS Configuration and Management	245
09	Secure VPN Configuration and Management	273
10	Wireless Network Defense	300
11	Network Traffic Monitoring and Analysis	328
12	Network Risk and Vulnerability Management	470
13	Data Backup and Recovery	562
14	Network Incident Response and Management	604