

World Class CAD

Principles of Design

Charles Robbins

World Class CAD

Principles of Design

Charles Robbins

Copyright © 2009 World Class CAD
Printed in the United States of America

World Class CAD, the World Class CAD logo, World Class CAD Certification and the World Class CAD Challenge are trademarks. Other names or labels utilized in this text or for identification purposes only and are trademarks of their owners.

Current Adobe PDF files of the prefix, each chapter and appendixes are present for your viewing needs at www.worldclasscad.com.

All rights reserved. You may not reproduce any part of this work or use the material in any form or by any means without the written permission of the author. For permission to use material published under the World Class CAD label, contact us at: www.worldclasscad.com

World Class CAD will revise the chapters, appendixes and other support material on the www.worldclasscad.com website from time to time without notice.

For more information about the Principles of Design, certification and to see other books in the World Class CAD series, visit our website at www.worldclasscad.com

World Class CAD

Principles of Design

Charles Robbins

Table of Contents

Chapter 1. The Principles of Design

Unit 1 - Conception

Chapter 2. Birthing an Idea

Chapter 3. Growing the Concept

Chapter 4. Putting Technology to Work

Unit 2 – The Design Team

Chapter 5. The Perfect Team

Chapter 6. Managing and Training the Design Team

Chapter 7. Educating the Design Professional

Unit 3 – Processes

Chapter 8. The Design Process

Chapter 9. Design for Human Utilization

Chapter 10. Developing on a Zero Budget

Unit 4 – Modeling

Chapter 11. Mechanism for Design

Chapter 12. Rapid Prototyping

Chapter 13. Automation or Semi Automation

Unit 5 - Production

Chapter 14. The Move towards Construction

Chapter 15. Training the Technician

Chapter 16. Maintaining a Quality Product

Chapter 17. The Next Step