

NEW AND BESTSELLING RESOURCES FOR CPC CONSTRUCTION



Improved design = better navigation and increased accessibility

At Cengage we're obsessed with top-quality content, and we're fanatical about design thinking and innovation that helps students to learn.

So, when we were planning the latest editions of the bestselling Building Skills series our design team conducted surveys and one-on-one interviews with students and instructors, to find out which elements of the text design (layout, colour, navigation/structure) could be improved on to make our learning resources even better.

They also observed classrooms to learn how instructors are utilising the Cengage Instructor Resources that are available to support their teaching, and how students are interacting with their Cengage digital or printed learning materials.

The findings from our research influenced the design of the new series in two key areas, leading to improvements in navigation and accessibility.

NEW

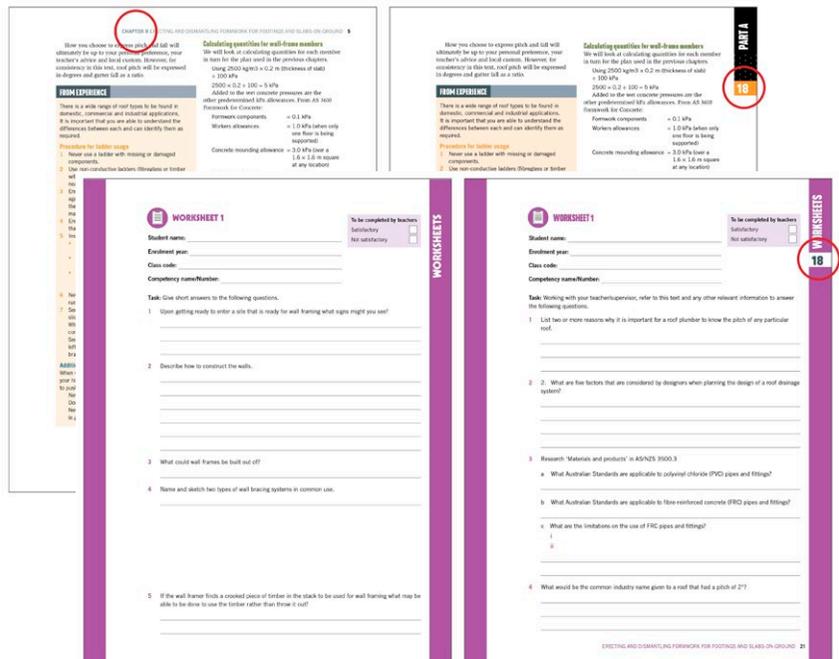
- Tabs throughout the chapters for better navigation
- Numbered tabs on worksheets for easy identification
- Improved accessibility for colour-blind students with the introduction to printed resources of textured pattern within the tab navigation as well as better colour contrast within artwork

Through our conversations with instructors and students, the following pain points were highlighted:

1. Trouble navigating through the book

Problem: students struggled with navigation.

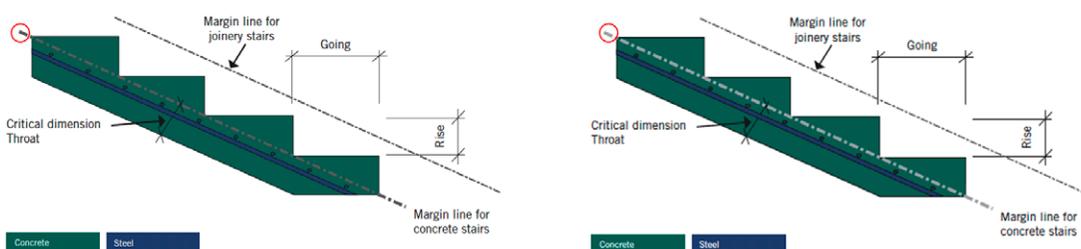
Solution: a new tabbing system for all chapters. Students can easily flick to the required chapter and then page that they need. Additionally, worksheet tabs are now numbered, making navigating to the right one fast and easy.



2. Issues with colour contrast in technical artwork

Problem: not enough contrast (particularly with darker colours) in some of the artwork.

Solution: tints and shades have been adjusted to provide more pronounced contrast. The new, inclusive design ensures that the resources are accessible for students with colour blindness.



The result? Resources that not only *help* students to learn but make it more *enjoyable* to learn.



CONSTRUCTION TECHNOLOGY FOR BUILDERS, 1E

Costin
ISBN: 9780170416047
512 pp | Spiral bound | eBook | Modular units
©2020



NEW

TABLE OF CONTENTS

Part 1 – Codes and standards

1. Building codes and standards
2. Legal requirements for building and construction projects
3. Construction contracts
4. Work health and safety
5. Plans and specifications
6. On-site supervision
7. Business disputes

Part 2 – Business preparation

8. Tender documentation
9. Small business finances

Part 3 – Design considerations

10. Site surveys and set out procedures
11. Simple building sketches and drawings

Part 4 – Structures

12. Structural principles
13. Applying structural principles to low-rise constructions

Part 5 – Sustainability

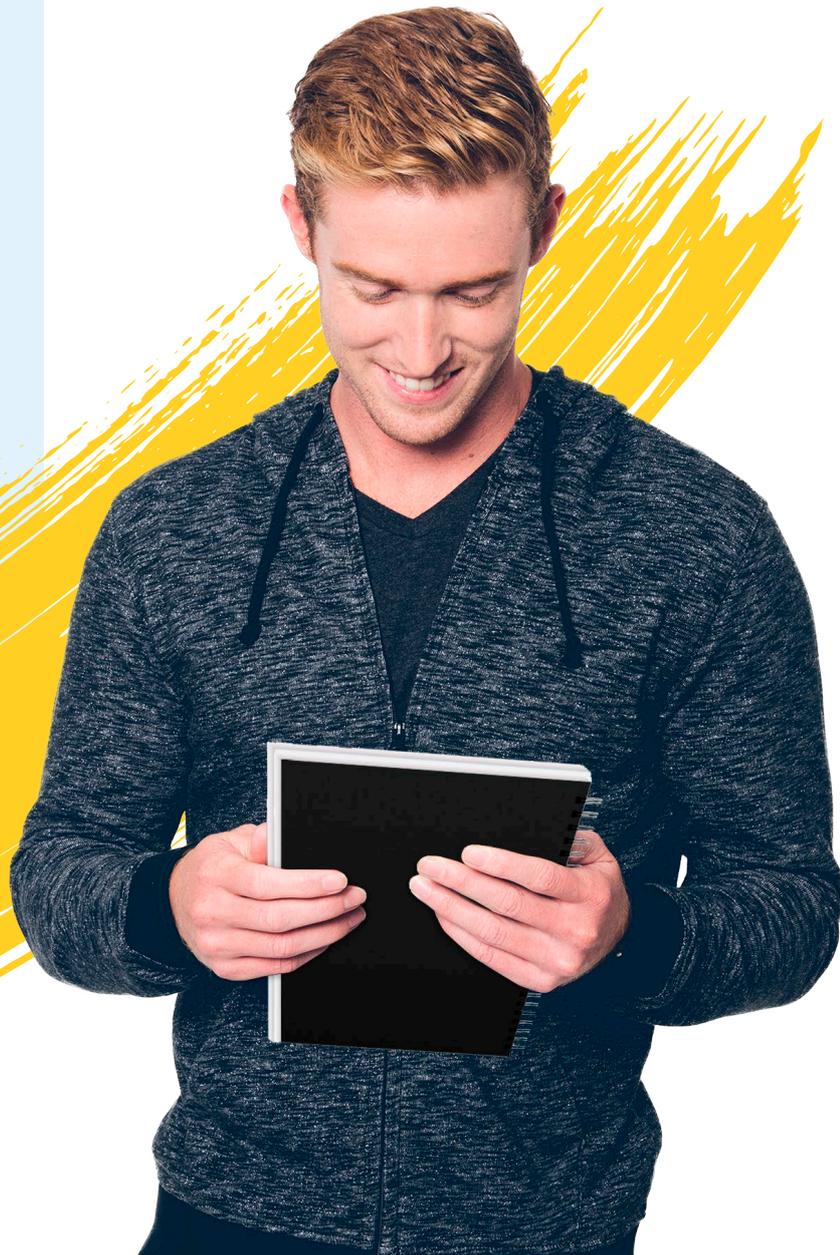
14. Thermal efficiency and sustainability
15. Minimising waste

Construction Technology for Builders, 1e addresses requirements of the Certificate IV in Building and Construction (Building). The text addresses 14 competency units with learning activities and work sheets to download. The chapters are aligned to specific competency units, and the material in this text requires and emphasises that the reader engage with Standards and Codes such as the NCC.

Communication is a critical component of the building and construction process and the preparation of sketches and drawings is a vital part of that communication skill set; the text has a dedicated chapter on preparing building sketches and drawings.

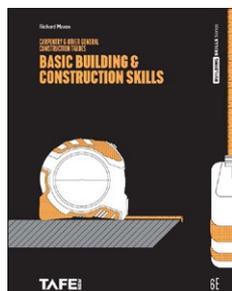
There are two chapters on structures, the first introducing the concepts underlying structural principles, and underpins the following chapter that applies this knowledge to the various elements of a building.

Additional learning material such as plans and specifications is provided in the Appendices to assist with the understanding of examples and exercises in the text.



NEW EDITIONS IN THE BESTSELLING BUILDING SKILLS SERIES FOR CERTIFICATE III IN CARPENTRY

The bestselling Building Skills series addresses the key competencies of the Certificate III in Carpentry. Series titles are built for learning with colour photographs and illustrations, online tools, and concepts explored in context to help student understanding. Work Health and Safety (WHS) icons identify critical points for concern and student activities help them apply the knowledge and skills. The worksheets at the end of each chapter are a resource for teachers and trainers to provide formative assessment and feedback on learner progression.



BASIC BUILDING AND CONSTRUCTION SKILLS, 6E

Moran
ISBN: 9780170420570
400 pp | Spiral bound | eBook | MindTap |
Modular units ©2020



Available with MINDTAP

NEW EDITION

The market-leading *Basic Building and Construction Skills* provides underpinning knowledge and skills for apprentices to work safely, efficiently and prolifically in the building and construction industry.

Mapped to the latest CPC Training Package, *Basic Building and Construction Skills, 6e* combines standard industry practice with the newest industry technology, tools and benchmarks. Includes updated end-of-section worksheets, content, images and photos, and a robust instructor support package. Fully updated to reflect present-day building practices, standards and legislation, with a strong focus on sustainability.

Premium online teaching and learning tools are available on the *MindTap* platform.

Learn more about the online tools cengage.com.au/mindtap

TABLE OF CONTENTS

Part 1 – Basic workplace skills

1. Apply WHS requirements, policies and procedures in the construction industry
2. Work effectively and sustainably in the construction industry
3. Plan and organise work
4. Conduct workplace communication

Part 2 – Setting out

5. Carry out measurements and calculations
6. Read and interpret plans and specifications

Part 3 – Using materials and tools

7. Handle carpentry and construction materials
8. Use carpentry and construction tools and equipment

Part 4 – Site works

9. Apply basic levelling



SITE ESTABLISHMENT, FORMWORK AND FRAMING, 4E

Laws
ISBN: 9780170422529
480 pp | Spiral bound | eBook | MindTap |
Modular units © 2020



Available with MINDTAP

NEW EDITION

Site Establishment Formwork and Framing is designed to provide learners in construction with a resource to complement their on-site learning experiences. The content covers units about what to do with a vacant site, setting out a building on that site, and completion of the framed building with walls, roof and eaves in place. Each chapter deals with the main events involved in the process of taking that vacant site through to the completed building, heavily referencing Australian standards, codes and guides as they apply to building, as source documents.

The updated coverage in this fourth edition of sustainability, materials, tools and industry benchmarks, coupled with revised end-of-section worksheets and online study tools, makes this the most up-to-date and comprehensive resource in the market.

Premium online teaching and learning tools are available on the *MindTap* platform.

Learn more about the online tools cengage.com.au/mindtap

TABLE OF CONTENTS

Part 1 – Setting out

1. Carry out levelling procedures and operations
2. Carry out setting out

Part 2 – Footings

3. Carry out excavation
4. Erect and dismantle formwork for footings and slabs-on-ground
5. Place and fix reinforcement materials
6. Carry out concreting to simple forms

Part 3 – Framing

7. Install flooring systems
8. Construct wall frames
9. Construct ceiling frames
10. Construct pitched roofs
11. Erect roof trusses
12. Construct eaves
13. Construct bulkheads

Part 4 – Demolition

14. Carry out general demolition of minor building structures

NEW EDITIONS IN THE BESTSELLING BUILDING SKILLS SERIES FOR CERTIFICATE III IN CARPENTRY



ADVANCED BUILDING AND JOINERY SKILLS, 3E

Cheetham
 ISBN: 9780170421867
 496 pp | Spiral bound | eBook | MindTap |
 Modular units ©2020



Available with MINDTAP

NEW EDITION

Advanced Building and Joinery Skills provides the basic knowledge and skills required in advanced carpentry and joinery across a range of specialist subject areas. Combining modern technologies with classic skills and techniques, subjects covered include wall lining and cladding, wet area construction, stairs, doors and windows, and advanced roofing subjects. The advanced concrete construction subjects of formwork for columns, beams, suspended slabs and walls, and concrete stairs are also covered.

Throughout this third edition, technical artwork has been coloured in line with the current Australian Building Standards, and includes a legend that identifies each building material colour.

Premium online teaching and learning tools are available on the *MindTap* platform.

Learn more about the online tools cengage.com.au/mindtap

TABLE OF CONTENTS

Part 1 – Formwork field of work

1. Formwork for slabs, columns, beams and walls
2. Formwork for stairs and ramps

Part 2 – Installation field of work

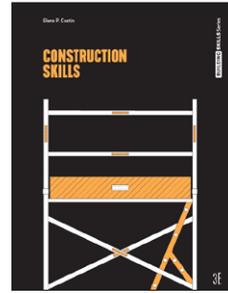
3. Install and replace windows and doors
4. Install wet area fixtures
5. Install lining, panelling and moulding
6. Construct, assemble and install internal and external timber stairs

Part 3 – General electives

7. Construct advanced roofs
8. Install external cladding

Part 4 – Machining and component manufacture field of work - Joinery

9. Manufacture and assemble joinery components



CONSTRUCTION SKILLS, 3E

Costin
 ISBN: 9780170444422
 336 pp | Spiral bound | eBook | MindTap |
 Modular units ©2020



Available with MINDTAP

NEW EDITION

This title informs new tradies of how to stay safe with comprehensive coverage of the technical and regulatory changes that students and teachers need to know about working safely at heights, on scaffolding and elevated work platforms, and with powder-actuated tools. *Construction Skills, 3e* is designed for easy student learning with end-of-chapter worksheets, explanation and definition of terms, coverage of regulation and codes, real-world examples and practical demonstrations. The author covers core units and important safety areas from Certificate III in Carpentry/Carpentry and Joinery, Certificate III in Plumbing and across the trades.

WRITTEN TO COMPETENCY UNITS:

- CPCCCM2012 - Work safely at heights
- CPCCCA3027 - Powder-actuated tools
- CPCCCM3001 - Elevated work platforms
- CPCCCM2008 – Restricted height scaffolding

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VALUE PACKS

Ask your Cengage learning consultant about value pack options



ISBN: 9780170290005



ISBN: 9780170289993



ISBN: 9780170289979



ISBN: 9780170289986

MindTap for the Building and Construction Series

ISBN: 9780170456593

| 8-term Instant Access



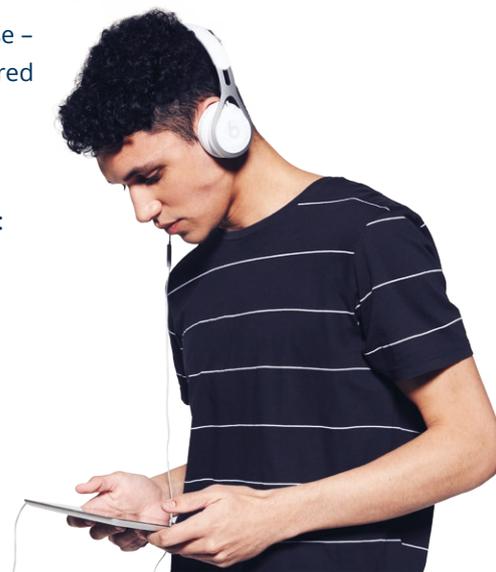
MindTap is an eLearning platform filled with ready-made content – aligned to your course – that can be accessed direct from your institution’s learning management system or offered as a standalone resource.

MindTap for the *Building and Construction Series* includes revision quizzes and online research activities, instructional videos, and the complete eBooks for the following titles:

- Moran, Basic Building and Construction, 6e
- Laws, Site Establishment, Formwork and Framing, 4e
- Cheetham, Advanced Building and Joinery, 3e
- Costin, Construction Skills, 3e

Improve learning outcomes with instructional videos

The all-new instructional videos in *MindTap* for the *Building and Construction Series* increase student engagement and enhance understanding of key concepts.



Moran

- Chapter 1: Toolbox talk
- Chapter 2: Building team skills
Environment matters
- Chapter 3: Don't be a tool – be prepared
- Chapter 4: Communication matters
- Chapter 5: What metre is that?
- Chapter 6: Read and interpret the plan
- Chapter 7: Storage solutions
Manual handling of construction materials
- Chapter 8: Sharpen your game
Video: Power up – power tool use and safety
- Chapter 9: On the slope

Laws

- Chapter 2: Taking your best level
- Chapter 3: Setting out on a slope
- Chapter 4: Stages of excavation
- Chapter 7: Preparation for flooring systems
- Chapter 8: Planning and organising materials
3D components of a wall frame systems
- Chapter 10: Constructing pitched roofs

Cheetham

- Chapter 1: Constructing concrete slabs, columns, beams and walls
- Chapter 2: Stairs for different purposes
- Chapter 3: Paneless installation
- Chapter 4: Installation of fibre cement sheeting
- Chapter 5: Skirting and architraves
- Chapter 6: Stair installation
- Chapter 7: Reading and interpreting plans
- Chapter 9: Ledged and braced doors

Craft unique learning experiences that challenge students, build confidence and elevate performance with *MindTap*.

Contact your Cengage learning consultant to find out how MindTap can transform your course. cengage.com.au/mindtap

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