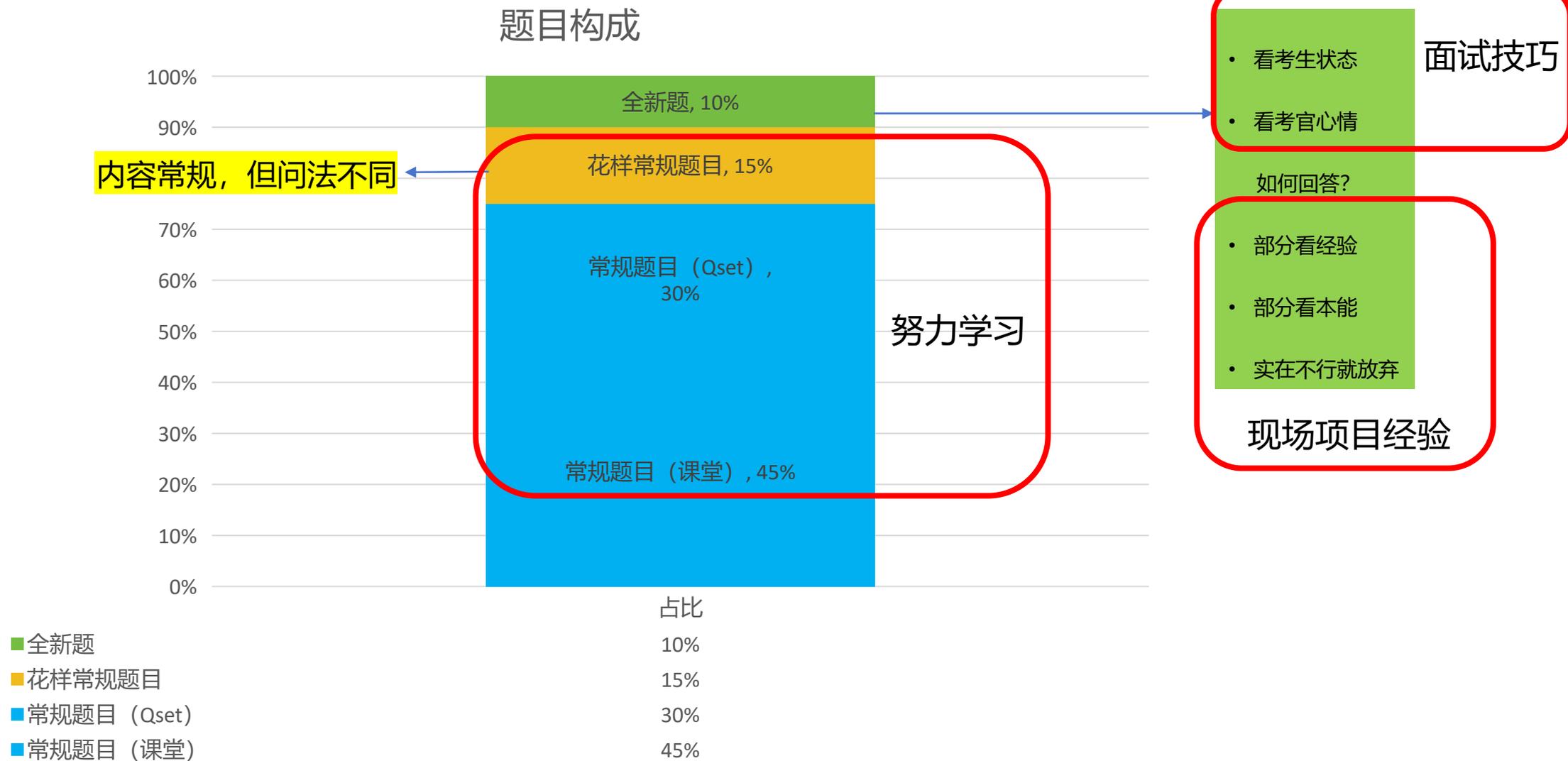


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Building Act, Real plan in test

Building Act

1. Purpose and Objectives(BA Part 1, Sect 1, 4) 目的和目标

- Regulates- Design, Safety, Health and Amenity of buildings
- Regulates-Building practitioners - Builders, Plumbers and Building Surveyors
- Regulates -Cooling Towers

2. BP required 什么情况需要 building permit

- Construction of New Buildings
- Alterations & Additions
- Decks & Balconies
- Retaining Walls
- Verandahs
- Swimming Pools
- Fences
- Demolition

3. Building Surveyor (BA Sect 76)

- To issue a building permit
- To carry out mandatory inspections
- To issue a Certificates of Occupancy or Certificate of Final Inspection
- To issue Notices and Orders

BS has the right to inspect a building site at any time – regardless of if it is a mandatory inspection stage or not.

- Powers include - demolish parts of work, open or cut into
- If there is anything wrong with the work inspected, then a Direction to Fix will be issued to the builder outlining what must be rectified
- If this is not carried out by the builder, the Building Surveyor can issue a Notice

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Building Act, Real plan in test

7. Mandatory Inspections (BR Sect 167)

- Mandatory inspections
Pre-Steel, Steel, Frame, Final, and Fire Related Elements
- Mandatory inspections defined in:
 - Form 2-Building Permit, and
 - Building Regulations-Part 12, section 167
- Your plan, bored pier, screw pile, basement, subfloor, retaining wall, deck, pergola. 一定要看自己的项目, 每个项目的 Inspection 要求都不一样, 确保自己知道所有的检查点
- Mandatory requirement - builder must notify the Building Surveyor after completion of each mandatory notification stage
- Relevant Building Surveyor must carry out inspection

8. Occupancy Permit (BR Schedule 4)

- Form 15: Application for OP
- Form 16: OP
- Form 17: Certification of final inspection
- If doing a new build, a person must not occupy that building unless the occupancy permit has been issued
- Building Surveyor must not issue an occupancy permit unless the dwelling is suitable for occupation and also only if they have seen a copy of the plumber's compliance certificate for works carried out. NCC 10.4.1, about all necessary facilities

9. Warranty and Liability (BA Part 9, Sect 134)

- Owner or subsequent owner has up to 10 years to bring a court action against the builder
- Mediation Process: DBDRV Domestic Building Disputes Resolution Victoria (VBA, VCAT)
- Supreme court after 15 years.

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Everything before concrete

Business

1. Profit and Lost Statement 损益表

Profit and loss of the business over a period of time 一段时间的利润和亏损报告

Profit = revenue - expenses - cost

revenue 是收入

expense 是花在运行公司上的费用

cost 是花在工程上的材料和人工

2. Balance sheet 资产负债表

How much your company worth at a certain time, reflected by assets, liability, owners equity

公司在一定时候值多少钱, 通过三个部分体现:

1. Assets 公司资产, 包括房子, 车等等

2. Liability 公司负债或法律债务, 贷款和信用卡属于 liability

3. Owners' equity 老板投资在公司上的钱

3. Working Capital

Money you can use 能用的钱

4. Cash flow forecast 现金流预测

Money earning ability forecast 预测公司的盈利能力

5. GST

Good and service tax, 10%

Turnover(营业额)<\$75000 no need 不需要申报 GST

\$75000<Turnover<\$3mil, quarterly lodge 7万5到300万, 每季度申报

Turnover>\$3mil lodge monthly 300万以上每月申报

6. BAS

Business activity statement lodge to Tax office quarterly reflects tax obligation.

每季度提交到 ATO 反映公司税务义务的报表

7. 公司的税都有哪些?

GST

PAYG, pay as you go tax is for employees, company pays that for employees 公司替员工代缴的

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8. Work cover 是什么?

If you are hiring someone, you need work cover insurance for them 雇人买的保险

9. 《Security of Payment Act》

Purpose is to make sure tradies and suppliers can be paid on time, invoice should be paid within 10 days after received. 完活收到发票 10 天内要付款。

10. Insurance 保险

DBI(home warranty insurance), maximum payout \$300k or 20% uncompleted works, covers 6 yrs structural and 2 yrs non-structural, triggers only when the builder is disappear, become insolvent, bankrupt.

Public liability, maximum payout \$20mil, covers someone gets hurt on your site or damage the neighbor's property

Contract work insurance, covers act of God, stolen, accident

11. Accountant software 会计软件

Xero

12. Estimating and scheduling software, how do you estimate the job 报价和报价软件

1. Buildxact software, template, per lineal or square meters

2. Send plan out and get quotes in, put in software.

3. Put contingency and margin on it

4. If the price increase, consider prime cost items when estimating jobs, they can't refuse.

5. Gant Chart for schedule the process.

报价用 buildxact/cubit 软件, 拉线取长和面积, 算料加人工

报价用 office 办公软件参考之前项目的模板

报价也可以根据项目经验, 发图纸, 收报价, 加利润

报价也可以找 quantity (quote) surveyor。

计划工作主要用甘特图, 里面可以分配人工资源, 拉线分配前后顺序

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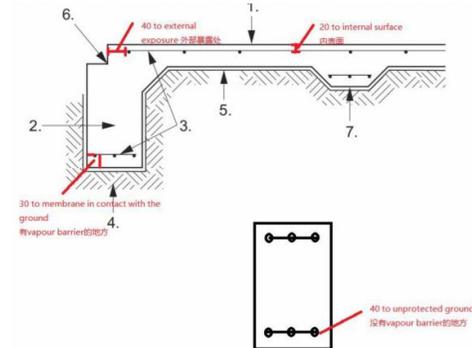
Foundation - Waffle and Rafts Slabs

Table 4.2.11b: Minimum lap for reinforcement

Reinforcement	Minimum splice	Minimum lap at "T" intersections	Minimum lap at "L" intersections
Steel reinforcing bars ≤12 mm diameter	500 mm	Full width across the junction	One outer bar must be bent and continue 500 mm (min) around corner
Steel reinforcing bars >12 mm to ≤16 mm diameter	700 mm	Full width across the junction	One outer bar must be bent and continue 500 mm (min) around corner
Trench mesh	500 mm	Full width across the junction	Full width across the junction
Square and rectangular mesh	The two outermost transverse wires of one sheet must overlap the two outermost transverse wires of the other	Not applicable	Not applicable

5.3.3 Steel Covers 钢筋距离水泥完成面的距离 NCC P51-52

20/30/40 原则 必考



5.3.4 Barchairs NCC P52

Maximum Spacing 800mm, on site 600mm



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Foundation - Waffle and Rafts Slabs

7. 附加答题: 如何做车道

1. What do you check before site cut for driveway?

- Subsoil drainage
- Under ground service including pit
- Dial before you dig

检查雨水管道, 通常他们都不算深, 真正要挖的时候要注意, 而且不能损伤雨水井
检查地面以下的管道, 水, 气, 电, 通讯, 电工和 NBN 通常会放管子, 电工是橙色管子, NBN 是灰白色管子, 里面会有 cables

考官喜欢听每次你挖地之前都申请 Dial before you dig 的图纸

2. Look at the plan, check the flow, string line, form work

看图纸, 看看车道定位和走向, 看看雨水井的高度位置, 拉线, 支模

3. Site cut, take 150mm soil out

- 50mm for crushed rock compacted
- 100 depth of concrete thickness

4. Cut or build the pit if necessary

- 水井要是低了要用水泥做上来, 用 yellow tongue 支模, 确保 grate 能和完成地面水平, 如果高了就要切下去

5. String line from form work to pit 从模板拉线, 拉出坡度

6. Put height pegs along the string line, paint white 按照坡度高度打钉

7. Put able flex around brick work or concrete

8. Del bars drilled into garage 100-150mm stick out 450/600 spacing

9. No inspection required because not structural

10. Barchair and steel

11. Pour

12. Saw cut the control joint of concrete driveway 1/4 depth of the concrete with in 24hrs

24 小时之内要切伸缩缝, 切深度在水泥厚度的四分之一, 切不到钢筋 3 米一个, 拐角

13. Exposed aggregate should find the colour, and finish perfectly

14. Retarder spray the surface with green colour

15. High pressure the top of concrete with in maybe 12hrs

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2. Building Act
3. Contract Act
4. Guides
5. NCC
6. OHS
7. Experiences
8. Swimming Pool
9. Masonry
10. Waterproof
11. Slab and Footing
12. Timber Framing

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1. Business

11. Currently, the Australian Government has set the GST level at what percentage?

10%

12. What is a business plan used for?

Assisting the business to achieve its objectives and goals

13. Which one is an example of revenue: sale of goods, a phone bill or purchase of materials?

Sale of goods

14. Is paying a telephone bill an expense?

Yes

15. What is PAYG Withholding Tax?

Pay As You Go Tax. It is tax taken out by an employer to remit to the tax department on an employees behalf

16. In business - what is Owners Equity?

It is what the owner has invested in the business (what is owed to the owner)

17. What does a "Profit and Loss" Statement show?

The Profit or Loss of a business over a period of time

18. How is Profit (or Loss) calculated?

Revenue - Cost of Goods - Expenses

19. What is a Long Term Asset?

Something that cannot be turned into cash quickly - such as property, plant or equipment

20. What is a Liability?

Money that the company owes to an entity -like a bank, trades etc.

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2. Building Act

7. Under which Act or Regulation is it stated that every piece of timber to be used for structural purposes must be stress graded and marked?

Building Regulations

Reference: Building Regulations 2018 - Part 8 -128 Branding of timber

8. After finishing building a new home for a client, what Forms must be filled out and obtained in order to complete handover with the client?

Forms 15 & 16

Reference: Building Regulations 2018 - Schedule 4 - Forms

9. Can a client move in to a new house before the Occupancy Permit is issued?

No

Reference: Building Act 1993 - 39 Occupancy permit must be obtained

10. What is the purpose of the Building Act?

Regulate design, health and amenity, builders and cooling towers of buildings

Reference: Building Act 1993 - Part 1 - 4 Objectives of the Act

11. An Owner Builder can only do building works on their own property up to what value before obtaining a building permit?

\$16,000

Reference: Building Act 1993 - 25B Restrictions on owner-builder

12. Who must be notified when terminating the services of a Building Surveyor?

The Victorian Building Authority and Local Council

Reference: Building Act 1993 - Part 6-81.2 Termination of appointment

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3. Contract Act

16. What are the various stages in a new build that apply method A payments?

Deposit, base, frame, lockup, fixing, final

Reference: Contracts Act 1995 - 40 Limits on progress payments

17. Can an unregistered builder enter into a building contract?

No

Reference: Contract Act 1995 - Part 3 - A builder must not enter into a contract unless registered

18. Why would a builder apply their own stage payment breakdown?

The construction is large, expensive and would take a long time to complete and to smooth out cash flow

Reference: Contracts Act 1995 - 40 (4) Limits on progress payments

19. What can the owner do if a builder has not completed the build within 1.5 times the period stated in the contract?

The owner may end the contract

Reference: Contracts Act 1995 - 41 Ending a contract if completion time or cost blows out for unforeseen reasons

20. What are the typical stage percentage payments?

5%, 10%, 15%, 35%, 25%, 10%

Reference: Contracts Act 1995 - Part 3 - 40 Limits on progress payments

21. An owner waives their rights to a cooling off period under what circumstances?

If they seek independent legal advice prior to signing the contract

Reference: Contracts Act 1995 - Division 3 - Cooling-off period after signing a contract - 34

Building owner may end a contract within 5 days without penalty

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4. Guides

12. What is the minimum depth a brick wall flashing must be chased into masonry?

15 mm

Reference: Guides to Standards and Tolerances 2015 - 7.06 Flashing

13. Is concrete paving deemed to be defective if it is not consistent in colour?

Yes

Reference: Guides to Standards and Tolerance 2015-1.02 Finish to external paving

14. When is a FFL or RL defective?

When they depart from the documented RL or FFL by more than 40 mm

Reference: Guides to Standards and Tolerance 2015 - 2.07 Finished floor levels

15. A line of masonry per-pends is defective if it exceeds a maximum deviation from vertical alignment of what value?

20 mm per 2 m height of wall, measured from centre to centre of perpend joints

Reference: Guides to Standards and Tolerance 2015 - 3.13 Vertical alignment of perpend joints

16. What is the maximum allowable overhang on slab of a bottom plate more than 90 mm wide?

10 mm

Reference: Guides to Standards and Tolerance 2015 - 4.08 Bottom plate overhang concrete slabs

17. A timber frame is defective if it deviates from vertical alignment by more than what value?

5 mm over a 1.8 m height

Reference: Guides to Standards and Tolerance 2015 - 4.02 Vertically of plumbness of steel and timber frames and exposed posts

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5. NCC

17. Can the following stairs be constructed? Riser is 185mm and Going is 350 mm.

No - using 2R+G maximum slope ratio 700 is exceeded

Reference: NCC 2019 - Table 3.9.1.1 Riser and going dimensions (mm)

18. In relation to Drainage -what does ORG stand for?

Overflow Relief Gully

Reference: NCC 2019 - 3.1.3.3 Surface water drainage - Explanatory information

19. What is the maximum allowable opening in a stairs balustrade?

125 mm

Reference: NCC 2019 - Figure 3.9.2.3 Barrier construction

20. Where a subsoil drainage system is installed to divert subsurface water away from the area beneath a building, what is the fall on the drain pipe?

Not less than 1:300

Reference: NCC 2019-3.1.3.4(a) Subsoil drainage

21. What is the minimum number of risers in a flight of stairs?

2 risers

Reference: NCC 2019 - 3.9.1.2 (a) (i) Stairway construction

22. What is the minimum ceiling height in a stairway?

2.0 m - measured vertically above the nosing line of stairway treads

Reference: NCC 2019 - 3.8.2.2 Height of rooms and other spaces

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6. OHS

1. What sort of information is included in an OHS Safety Plan?

Nearest hospital, First Aid Officer, Site Supervisor, Nearest Doctor, Emergency numbers for Gas, Water, Electricity, Builders Details, Building Surveyor details

2. How far should a ladder extend above an upper landing?

900 mm

3. What grade of ladder must be used for construction work?

Industrial Grade

4. What is an employers legal responsibility to all workers on site?

To have a duty of care for the health and safety of all

5. What is the government body that enforces health and safety in Victorian workplaces?

WorkSafe Victoria

6. What does MSDS stand for?

Material Safety Data Sheet

7. How often should a power lead be inspected and tagged on site?

Every 3 months

8. What is the best way to resolve a dispute on site?

Communicate freely, write things down, explain things clearly, listen to others, be patient

9. If your employee gets hurt on the job, what insurance covers them?

Work Cover

10. If a worker has an accident on your worksite and must go to hospital, what is your obligation under current law?

To immediately notify WorkSafe of the incident by phone and in writing within 48 hours

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7. Experiences

48. What type of fixings would you typically use on a girder?

Triple-grip, multi-grip, cyclone tie, dedicated girder truss bracket

49. What is a girder truss?

A truss that supports hip and jack trusses

50. How many nails are used for a triple grip?

10

51. Is a truss part of a conventional roof?

No

52. If using Plywood on an internal wall, what is the main problem you face for the rest of the wall and how would you fix it?

It will create a step in the wall for the plasterboard - so you have to pack the rest of the wall out

53. What bracing can you typically use on a roof across the top cord of the trusses?

Speed bracing

54. What types of bracing can be used in walls?

Speed bracing, strap with tensioners, angle bracing, plywood

55. What happens to merbau decking when it rains and it is not sealed with decking oil?

It bleeds - the tannin within the timber starts to wash out

56. What bulk factor must be applied when excavating and removing clay soils?

1.6

57. What is Blinding Concrete?

A base of concrete where the foundation has been slightly over-dug

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8. Swimming Pool

Reference: AS1926.1 2012 - 1.3.22 Swimming pool

8. The maximum height of any opening from the bottom of a pool barrier to the ground

surface must be?

100 mm

Reference: AS1926.1 2012 - 2.3.6 Ground clearance

9. If a horizontal component is present within an NCZ and protrudes more than 10 mm, what angle chamfer must be installed?

60 degrees

Reference: AS1926.1 2012 - 2.3.5(a) Horizontal components

10. Where the release point of a latch is less than 1500mm above finished ground level, where should the location of the latch be?

On the inside of the barrier

Reference: AS1926.1 2012 - 2.4.2.2 Location of the latch

11. Is a building permit required prior to installing a new pool?

Yes

Reference: VBA swimming pool notes

12. Does a pool gate have to be self closing and self latching?

Yes

Reference: AS1926.1 2012 - 3.4 Closing and latching of gates

13. Pool Gate hinges are not allowed if they protrude out from the barrier by more than what distance?

10 mm

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9. Masonry

20. What is the minimum depth head flashing must be installed into a masonry unit?

150 mm

Reference: AS4773.2 2015 - 9.6.2.2 and 9.6.2.3 Sill flashings, head flashings

21. What is the minimum depth a brick tie must be embedded into a leaf of masonry?

50 mm

Reference: AS4773.2 2015 - 9.7 Wall ties

22. What is the maximum height of a parapet for non reinforced masonry?

600 mm

Reference: AS4773.22015-10.10 Parapets

23. What is the minimum thickness of any masonry leaf in a cavity wall?

90 mm

Reference: AS4773.22015-10.2 Cavity

24. What is the maximum distance between weepholes?

1200 mm

Reference: AS4773.22015-9.6.2.1 Cavity flashings

25. How far must a cavity flashing be turned up, and what is the maximum fixing spacings to the frame?

150 mm up and 600 mm max. fixings to frame

Reference: AS4773.2 2015 - 9.6.2.1 Cavity flashings

26. What is the maximum overhang of masonry on a slab edge rebate?

15mm

Reference: NCC 2019-3.2.2.7 (b) Edge rebates

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10. Waterproof

17. When installing a leakage control flange, how must the waterproof membrane be applied?

It must be bonded to the surface of the flange and can terminate either horizontally or both horizontally and vertically into the drainage flange

Reference: AS3740 2021 - 4.3.1 Leak control flanges

18. How must a bath end wall within a shower area be treated?

It must be treated as a shower area wall

Reference: AS3740 2021 - 4.13.1 General

19. For a timber floor outside the area of a fully enclosed shower, what is the waterproof requirements?

Waterproof the entire floor area

Reference: AS3740 2010 - Waterproofing in domestic wet areas - Table C1

Area outside of shower area

20. For showers with a hob and step-down, how far up the vertical face of the wall must a waterproof membrane be applied?

A minimum height of 150 mm above the shed tile level of the floor or 25 mm above the maximum retained water level, whichever is the greater

Reference: AS3740 2021 - 4.6.3 (a) Vertical membrane termination

21. What is the waterproof requirements for a wall adjacent to a sink?

If the sink is within 75 mm of the wall- Water Resist the wall to a minimum height of 150 mm above the sink

Reference: AS3740 2010 - Waterproofing in domestic wet areas - Table C1 Walls adjoining other

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11. Slab and Footing

29. What is the minimum concrete cover for steel reinforcement to an internal surface?

20 mm

Reference: AS2870 2011 - 5.3.2 (a) Requirement for raft slabs - Reinforcement

30. What is the minimum concrete cover for steel reinforcement to a membrane in contact with the ground?

30mm

Reference: AS2870 2011-5.3.2 (a) Requirement for raft slabs - Reinforcement

31. What is the purpose of the edge rebate?

Allow drainage of the cavity and prevent water ingress into the building

Reference: AS2870 2011 - C5.3.4 Edge rebates

32. For a stump pad footing with Effective Area supported being 30 m², what is the thickness and width of the footing?

600 mm wide and 250 mm thick

Reference: NCC - Figure 3.2.5.2 Pad footings for clad frame, Class A and S sites

33. What is the minimum width of an internal beam on a raft slab?

300 mm

Reference: NCC - Figure 3.2.5.3 (b)

34. In calculating the depth of a strip footing, how is the value D_f calculated?

D_f is greater or equal to D plus 75 mm

Reference: NCC - Figure 3.2.4(b) Note 5

35. What steel reinforcement can be used at re-entrant corners?

2 strips of 3-L8TM, or one strip of 3-L11TM or 3-N12bar

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12. Timber Framing

8. When installing angle bracing, what is the maximum notch that can be cut into the stud?

20 mm

Reference: AS1684.4 20W - Table 6.1 Holes and notches in studs and plates

9. What is the maximum height of noggins above ground?

1350 mm

Reference: AS1684.4 2010 - 6.2.1.5 Noggings

10. Floor joists supporting floor loads only may cantilever up to what % of their allowable span, provided the minimum backspan is at least twice the cantilever distance?

25%

Reference: AS1684.4 2010 - 4.3.3.1 Floor joists - General

11. What is the maximum depth of a notch in a stud to allow for the installation of a bath?

25 mm

Reference: AS1684.4 2010 - Table 6.1 Holes and notches in studs and plates - Note 1.

12. What is the minimum clearance between the underside of a lintel, or lintel trimmer, and the top of a window frame?

15 mm

Reference: AS1684.4 2010 - 6.2.3 Openings

13. What is the maximum diameter hole that can be drilled in a bearer or joist, if the depth (D) of the member is greater than 200 mm?

50 mm

Reference: AS1684.4 2010 - Figure 4.3

14. What is the maximum hole that can be drilled into a load bearing stud?

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12. Timber Framing

46. What are the 3 types of roofs that AS1684.4 covers?

Coupled, Non-Coupled, Trussed Roofs

Reference: AS1684.4 2010 - 2.6.4 Roof

47. What is the minimum bearing length for a bearer joined over a stump, on each side of the joint?

50 mm

Reference: AS1684.42010 -2.6.4 Roof

48. According to AS1684.4, what is the maximum spacing of rafters and trusses?

900 mm for tile roof and 1200 mm for sheet roof

Reference: AS1684.42010-1.4.9.1 Rafters or trusses-Spacing

49. For a bearer joined over a support, what is the bearing distance of the bearer on either side of the join?

50 mm

Reference: AS1684.42010 -4.2.1.1 Bearers - General

50. What stress grade is cypress?

F5, F7

Reference: AS1684.4 2010 - Table 1.5 Stress grades

51. Where can joints in bearers occur?

Only over supports

Reference: AS1684.4 2010 - 4.2.1.1 Bearers - General

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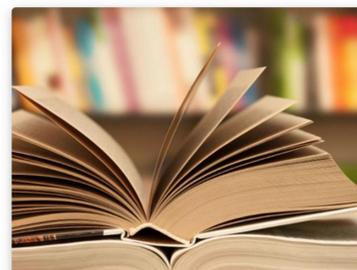
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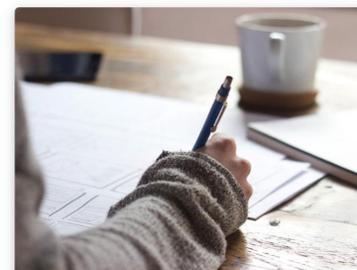
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2023-09-14 All before concrete

2023-09-07 Waterproofing

2023-08-31 Building Act, Real plan based test

2023-08-24 Miscellaneous

2023-08-17 Masonry

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2023-09-14 All before concrete

2023-09-07 Waterproofing

2023-08-31 Building Act, Real plan based test

2023-08-24 Miscellaneous

2023-08-17 Masonry



Business

9. 《Security of Payment Act》

- Purpose is to make sure tradies and suppliers can be paid on time, invoice should be paid within 10 days after received. 完活收到发票10天内要付款。

10. Insurance 保险

VMI

- DBI(home warranty insurance), maximum payout \$300k or 20% of contract price, covers 6 yrs structural and 2 yrs non-structural (triggers only when the builder is disappeared, become insolvent, bankrupt).
- Public liability, maximum payout \$20mil, covers someone gets hurt on your site or damage the neighbor's property
- Contract work insurance, covers act of God, stolen, accident

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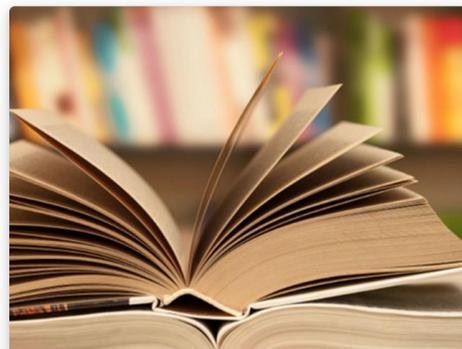
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Introduction of VBA assessment

Training, Learning and Database

Bracing

Roof Lines

Raft Slab

Practice Plan 14

Angle of repose

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Training, Learning and Database

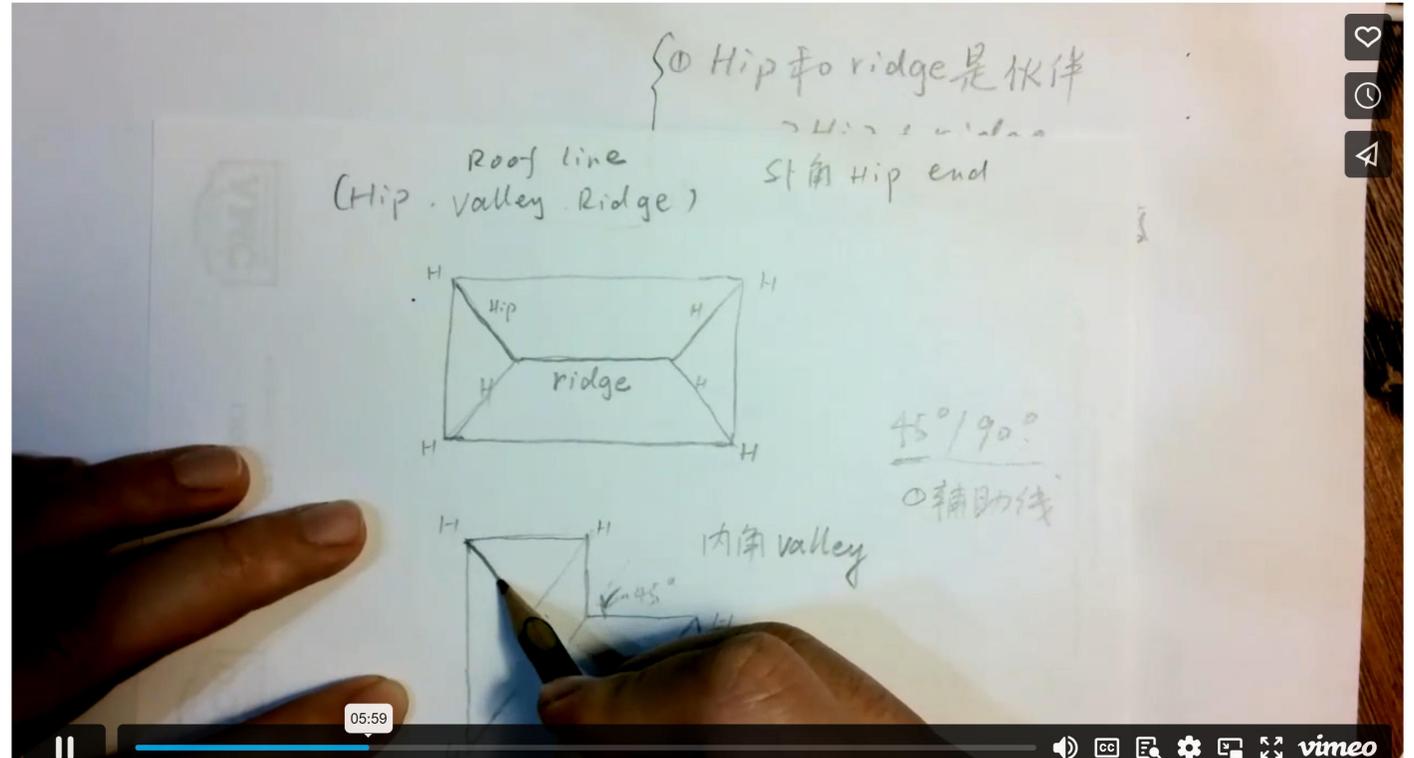
Bracing

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Business	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
Building Act	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24
Contract Act	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36
Guide to Standard and Tolerance	Q37											
NCC												
OHS												
Experiences												
Swimming Pool												
Masonry												
Waterproof												
Slabs and Footings												
Framing												

A Balance Sheet –

- provides a snap shot of the health of the business over a period of time
- provides a snap shot of what the business is worth on a particular day
- none of the above

提交

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Business

- 1 What would you do if your business plan is not working?
 - (A) review the plan
 - (B) all answers are correct
 - (C) employ the services of an external consultant
- 2 What is Cost of Goods & Services?
 - (A) COGS is the cost of materials, fixtures and fittings and also labour
 - (B) COGS is the cost of repayments to the bank for borrowings of money
 - (C) COGS is the expenses of running the business
- 3 What are the 3 main sections found on a balance sheet?
 - (A) Assets, Expenses, Cost of Goods
 - (B) Assets, Liabilities, Owners Equity
 - (C) Liabilities, Revenue, Owners Equity
- 4 What would you consider when budgeting for a build?
 - (A) materials, labour, overheads and profit
 - (B) materials, labour and profit
 - (C) materials and labour
- 5 Who prepares a balance sheet?
 - (A) architect
 - (B) accountant
 - (C) building surveyor
- 6 What are 3 things that could hold up a job?
 - (A) client cash flow problems, bank slow paying stage payments, builder going on holidays
 - (B) weather, builder cash flow problems and unreliable trades
 - (C) the carpenters wife having a baby

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➤ 要学到什么程度? 找我一对一PK的时候要准备到什么程度?

- 具备一个关键词能说出所有相关内容的的能力,

渔网能力

例:

Business

Masonry

Termite protection

Contract

OHS perspective

Rangehood

Swimming pool

- 懂得学完 $1+1=2$, 别人问 $2-1=?$ 的时候知道在问什么

例: buy exhaust fan, rangehood requirement

- 考官出了一道大题, 没有引导你回答, 要自己引导自己回答, 直到考官暂停你, 而不是等考官的反馈

例: raft slab from start to finish

- 考官给机会补充, 不要放弃
- 考官虐我千百遍, 我待考官如初恋
- 不要生气, 不要任性, 控制脾气, 三个小时之后一切都过去了
- 过分依赖现场和经验, 通不过考试

想放弃的时候, 想想下个项目自己就不求人, 能省掉签字费了, 能赚别人签字费了