Draft 0.1

This is our work-in-progress update to CPCCBC5002A Monitor costing systems on medium rise building and construction projects: https://training.gov.au/Training/Details/CPCCBC5002A.

We are working with industry experts to ensure the updated unit:

- meets current and anticipated industry needs
- complies with current Standards for Training Packages
- is written in clear understandable English.

Information on our training package review and development process is available here: http://www.artibus.com.au/project-stage.

Summary of changes from current endorsed unit

Re-templated to meet Standards for Training Packages 2012.

Sequenced Elements and Performance Criteria.

Specified what and how performance is demonstrated in Performance Evidence.

Captured critical Range Statement items and included industry relevant knowledge in Knowledge Evidence.

Stated mandatory conditions and specific requirements for assessment.

CPCCBC5002
Monitor costing systems on medium rise building and construction projects

Application

This unit of competency specifies the skills and knowledge required to monitor building or construction costing systems for medium rise projects. It includes supervising the processes, practices and maintenance involved in the production of expenditure schedules and other arrangements, to ensure contracts or projects remain on budget.

This unit of competency applies to builders, senior managers in building and construction firms, and other construction industry personnel who work independently and in groups to investigate, evaluate and report project costing.

Prerequisite Unit

Nil.

Unit Sector

Construction.

Elements and Performance Criteria

1. Identify and classify project costs.	1.1	Access, read and interpret current building codes of practice, standards, legislation and specifications.
	1.2	Identify construction costs and produce accurate estimations from project schedules.
	1.3	Define cost estimates, appropriate to contract requirements and accurately translate into the correct cost centres.
	1.4	Identify cost centres and correctly incorporate into a planned project cost network.
	1.5	Undertake risk assessment and compare estimated cost with estimated risk.
2. Prepare schedules for project expenditure.	2.1	Identify project critical points and prepare draft schedules of project expenditure.
	2.2	Produce hard copies of prepared expenditure schedules in line with organisational processes.
	2.3	Identify critical financial phases of the project and match cash flows to expenditure.
3. Create curves for projected cash flow and payments.	3.1	Prepare interim payment claims and rise and fall calculations for contractors and subcontractors.
	3.2	Prepare projected S curve to show cash flow and resource control.
	3.3	Prepare and compare projected cash flow and payments using time risk and cost risk.

	3.4	Compare cash flows using early start and late finish for pessimistic or optimistic outcomes.
	3.5	Calculate pessimistic overdraft requirements.
4. Monitor and maintain expenditure.	4.1	Monitor cash flow and creditor payments daily.
	4.2	Compare network budget cost to actual costs in the tender calculations.
	4.3	Calculate rise and fall expenditure and advise financial controller of variations.
	4.4	Identify and analyse reasons for any cost variations.
	4.5	Take necessary remedial action and record to retain contract financial compliance.
5. Prepare final cost report.	5.1	Compare actual costs with estimates at the completion of the job and compile a report detailing future actions.
	5.2	Adjust organisational rates as required, based on the final cost report and current movements in prices and rates.

Foundation Skills

As well as the foundation skills explicit in the performance criteria of this unit, candidates require:

- numeracy skills to:
  - use and apply graphical techniques to analyse and compile costing information
  - research and investigate statistical and numerical data to measure performance against cost estimations
- technology skills to:
  - use a range communication tools and devices to communicate and collaborate effectively with others
  - use specialised programs to access, extract and share information in effective ways

Unit Mapping Information

Supersedes and equivalent to CPCCBC5002A Monitor costing systems on medium rise building and construction projects.

Links

Companion Volume Implementation Guide: to be added.

Assessment Requirements for CPCCBC5002 Monitor costing systems on medium rise building and construction projects

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by monitoring costing systems of a Class 2 to 9 Type A building and construction project.

In doing this, the candidate must:

- supervise and monitor staff who develop and consolidate costing data for the construction project
- produce schedules of expenditure from comparing the extent of actual costs to estimated cost
- produce accurate and punctual financial report in the format required by the organisation
- plan and continuously revise the schedules of payments and cash flows to match contract performance and efficiency.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- advanced estimating and costing systems used in the building and construction industry
- relevant government standards, codes of practice, legislation and licensing requirement for medium rise construction projects
- building and construction costs:
    - building or construction materials
    - temporary on-site services and permanent utilities
    - human resources and specialist services labour
    - plant and equipment purchase, lease and operating
    - pre-cast and off-site prefabricated materials
    - consumables
- project finance cost centre
- financial principles:
    - evaluating and eliminating or reducing risk
    - progress payments to maintain cash flow
    - expenditure evaluation and overhead costs
- project cost reporting:
    - cost-benefit analyses of overtime payments
    - detailed summaries of actual costs against estimates
    - details of cost over-runs and savings on labour and contracting out
    - details of savings or under-expenditure on materials or supplies
    - equipment performance information and efficiencies
    - variations in rates occurring through rise and fall clauses and effects
    - wages, salaries and penalties

    - insurances, including workers' compensation premiums
- project processes and timelines

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment of performance must be undertaken in the workplace or in a simulated workplace environment.

Candidates must be provided with:

- relevant and current project plans, specifications, codes, standards and regulations
- organisational policies and procedures
- organisational systems for cash flow and payments
- sufficient equipment and materials to facilitate monitoring costing systems on a medium rise construction project.

Links

Companion Volume Implementation Guide: to be added.