



Faculty of Engineering
ADVANCED DIPLOMA IN
CONSTRUCTION HEALTH AND SAFETY

Construction Safety Management
CSM470S

SUBJECT GUIDE
2021

PREREQUISITE SUBJECTS:
COURSE CODE:
NQF LEVEL: 7

Table of contents

Organisational component

1.	Introduction / Word of welcome	1
2.	General	2
3.	Study materials and purchases	3
4.	Module credits	4
5.	Assessment	5
5.1	Assessment policy and regulations	5.1
5.2	Assessment opportunities: administration	5.2
6.	Additional information	6

Study component

7.	Module specifications	7
7.1	Purpose of the module	7.1
7.2	Module structure	7.2
7.3	Articulation with other modules in the programme	7.3
7.4	Learning presumed to be in place	7.4
7.5	Critical cross-field outcomes	7.5
8.	Study units and themes	8
8.1	Specific outcomes	8.1
8.2	Knowledge base	8.2
8.3	Assessment opportunities	8.3
8.4	Assessment criteria	8.4
8.5	Self-study activities	8.5

1. Introduction / Word of welcome

WHAT THE SUBJECT CONSTRUCTION SAFETY MANAGEMENT (CSM470S) IS ALL ABOUT

Being able to create a safety culture, addressing every aspect of all safety efforts, and ensuring accountability at all levels. Being able to create a comprehensive program assures OSHA and local regulators that you take safety seriously. It can reduce the liability exposure and bolster your defence if litigation occurs. And workers who feel safer are more efficient and productive.

2. General

2.1 Contact information

	Name	Building and room number	Telephone number	E-mail address	Consulting hours
Subject Co-ordinator	M. Ngqongisa	Business Building Room 2.16	021 959 4874/083 875 3178	ngqongisam@cput.ac.za	
Lecturer :	M. Ngqongisa	Business Building Room 2.16	021 959 4874/083 875 3178	ngqongisam@cput.ac.za	
Tutors					
Secretary	C. Daniels	Business Building Room 012			

2.2 Timetable

Days and times	Times	Venue
Wednesday	10:15-11:45	Y4/Online
Thursday	11:45-13:15	Y4/online

2.3 Consultation Times

Your lecturer will be available in the lecture theatre during and immediately after the allocated CSM 470S lecture periods.

Appointments to see your lecturer in his office (Room: 2.16) can be made by arrangement.

Please use the WhatsApp group created and email me if possible.

2.4 Rules and Responsibilities

- *All students registered in the Faculty of Engineering shall be subject to the rules, regulations and authority of the Faculty when attending any function or activity under the auspices of the said Faculty.*
- *The Faculty of Engineering including the Department of Built Environment and academic staff are indemnified against any action that may be brought against any lecturer, the Faculty of Engineering or the Cape Peninsula University of Technology (CPUT) by a student for whatsoever reason, e.g. injury, damage or loss of property/personal effects etc. Students are required to fill out a form in which they acknowledge their indebtedness to the University in respect of equipment issued for use during practical's or tutorials.*
- *Upon registration the student undertakes to abide by all rules and regulations of the University and the Faculty of Engineering. All outstanding fees must be paid and all outstanding property be returned to the University before final results are published.*
- *The University reserves the right to retain any work done by the student during the course of the academic year.*
- *The University expects of its students a high sense of duty and responsibility at all times.*
- *Students are expected to take personal pride in their appearance at all times. The lecture rooms, corridors, cafeteria and grounds must be kept clean at all times.*
- *Regular attendance of classes is of the utmost importance and continued absenteeism without good reason, will be viewed in a very serious light. An attendance register will be taken in order to monitor your attendance and performance.*
- *Punctuality is essential – registers will be marked at the beginning of each period and latecomers may be refused admission to lectures/practicals. Classes commence daily at 08:30.*
- *Eating, smoking, rowdiness and loitering during lecture times are not acceptable behaviour.*
- *Any wilful damage to property and equipment will have to be paid for by the person/s responsible.*

- *Students must acquaint themselves with all instructions and notices issued or displayed on the notice boards and in this student guide.*
- *Students must park their vehicles only in the parking spaces allocated to them. Parking is entirely at owner's risk. Drivers are expected to be careful, considerate and courteous.*

2.5 Participation and absence

Students are expected to **attend all CSM470S lectures**.

This is essential since each lecture builds upon the principles and theory covered in the previous lectures. Missing a lecture will thus immediately put you at a disadvantage.

A register will be circulated periodically during lectures, and this information could be used where a passing mark of 50% is in question.

In the event of a student being unable to attend lectures on medical grounds, a medical certificate needs to be submitted immediately on return to the University.

Only valid medical certificates or formal documentation indicating proof of absence will be taken into consideration for extensions of hand-in deadlines, absence from tests or from lectures.

The medical certificate needs to clearly state the nature of the injury/illness and must have a direct effect on your ability to write tests (i.e. earache should not prevent you from being able to write a test.)

The original certificate must be handed to the departmental secretary in respect of any absence from a test, or failure to hand in assignments or projects. It is solely your responsibility to hand this certificate in, certificates will not be asked for

The department reserves the right to follow up on all medical certificates submitted, firstly to confirm authenticity of the certificate (that the student did in fact consult the doctor), secondly, to confirm the dates the student has been booked off from attending lectures.

3 Prescribed and Recommended Sources

Prescribed books:

Ridley, J. and Channing, J. 2001. Workplace Safety. Vol. 4. Oxford, United Kingdom, Butterworth-Heinemann Elsevier Ltd,

Recommended readings:

Construction Safety Association of Ontario. 2003. *Construction Health and Safety Manual*,

3.2 Time allocation

In addition to the one periods per week, students will be required to complete tutorials, assignments, etc. outside of the formal class time.

Students need to realize as early as possible that most lecturers expect them to put in additional hours of additional private study – going over work covered in class, making supplementary notes and explanations, working on additional tutorials, etc. It is only by remaining current and fully understanding and mastering all the work as it is being covered, that students will achieve the desired results.

3.3 Teaching Methodology

Lecturing on the theory and related parts of Construction Safety Management with regards to each section of the syllabus.

Practical examples related to each section of the syllabus will be discussed in the classroom.

4 Assessment / evaluation and promotion requirements

Tests and Assignments (Year mark)

The year mark will be calculated from the **3** class progress tests that you are required to write. You will be informed of the dates for these tests once these have been finalized. The Year mark counts **50%** of the FINAL mark.

The weightings of the class test marks are as follows:

Test 1 10%

Test 2 10%

Assignment 10%

Presentation 20%

Industrial visits 10%

Exams / Final Summative Assessment

In addition to the 3 Class tests there is also one final examination counting 40% of final mark.

Students require a FINAL MARK of 50% to pass the subject.

A minimum of 40% is required in the end of year examination for a student to be considered for promotion.

No supplementary exams are offered, however, **students must be available after the November exams for possible re-evaluation.**

A list of students eligible for re-assessment will be published approximately 10 days after the writing of the last written examination, and it is the student's responsibility to consult the list. Students who do not attend the re-assessment on the prescribed dates, will lose the opportunity to be re-assessed.

5 SUBJECT REPEATS

In the event of a subject being failed the learner will have to re-register for that subject the following year. Close liaison with the subject lecturer is essential and the learner is responsible for ensuring that the necessary contact with the lecturer is maintained. The learner is strongly advised to ensure that the work required is timeously done.

6 COMPUTER FACILITIES

The Computer Labs will not be available when lectures are in progress and Fridays after 16:00, students are advised to make use of IT Centre. Printing times and after hours use of the computer labs will be as per the timetable, which will be displayed in the computer labs.

7 LIBRARY CARDS

You must ensure that you are in possession of library cards and are acquainted with the library hours.

8 COPYRIGHT

You are expected to comply with all copyright provisions governing the use of books, articles, journals, audio visual and other media. The penalties for contravention of these provisions are extremely severe and will be your responsibility should you be caught.

9 LEARNING ACTIVITY

9.1 Aim of Course

The aim of this subject is to equip students with advanced specialist knowledge of workplace safety: to research and apply theory and best practice with regard to effective safety management on construction sites.

9.2 Objectives and Outcomes

After completion of this course, the student must be conversant with:

- ! The various procedures covered in this course on Construction Safety Management.
- ! and be able to apply the principles of effective safety management on construction sites.

9.3 Syllabus

General safety

History of Industrial Safety, Safety Legislation, Importance of Safety, Safety programs, Safety procedures, Environmental health, Equipment maintenance, Managing accidents, Disaster Management

Safety on construction sites

Construction accidents, Safe working in the industry, Site hazards, Access,

Equipment safety

Personal protective equipment, Guardrails, Ladders, Scaffolds, elevating work platforms, Suspended access equipment, Rigging

Safe use of machinery

Strategy for selecting safeguards, safeguarding techniques, Powered trucks, Lifting equipment, Pressure systems and gas containers

Science in construction safety

Structure of matter, Properties of chemicals, Mechanics, Strength of materials, Modes of failure, Testing, Hydraulics