**..register saqa admin .national framework regulatority qualifications . instituts foreigners**

**Credit subject entry .nqf1.12..**

Award diplomat work day certificate.1th,.2.th.,3th,,4th level

I'd number submitted.. record

Academic transcript learner student lecturer..

N national certificate diplomat.

Credit equivalent entry  evidence explain

50%..50/100..equivalent. award minimum. meeting

Name surname credit acredit  minimum

I'd/name/years qualifications//provision//.

| I'd | Name surname | years qualifications | provision | file student | submitted document file | Courses attandance | exam attended |
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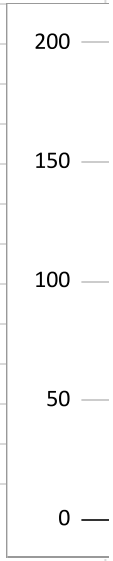

## 1.register national examination ,

N diplomat. Examination n 1.n6 diplomat t1.

I'd /name /years///file student/submitted document file///

Courses attandance////exam attended

| I'd number | Name surname | years | file student | submitted document file | Courses attandance | exam attended |
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I'd number registered.regulier diploma n

18month.attandance.term 1.term2.term.3week

Level1.2.3 minimum engineering electrical learning national trade

Registered.. regulier/

I'd number candidate.//.I'd regulier.//

I'd name///class level///file number//submitted number ///documents attached

National

| I'd number | class level | file number | submitted number | documents attached | Courses attandance | exam attended |
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N1.n3..rwiten final engineering

N1,N2, council test trade .

Councils education..

I'd number candidate irregularity register

Reg .I'd number submitted.

Rectorat college director principal

System

College internal registered. St peace

And institutor ..distance university

.grade..1..12... level 1.2.63.4.5.6

Under graduat .1.2.3.4

Learner

Teacher

Lecture

Professional

Subject faculty  admnise

Regularity .. irregularity ruling

I'd name . Term 1.2.3.4.5.6.7.8.9.semester1,2

Report internal diploma.certificate award . internal  statement internal report . homework classwork test .exam internal sylabus hand book campus module practice.

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| .grade..1.. 12... level 1.2.63.4.5. 6 | |
| Under graduat . 1.2.3.4 | |
| Learner<br><br>Teacher<br><br>Lecture | |
| Subject faculty ad mnise | |
| Regularity .. irregularit y ruling | |
| I'd name . Term 1.2.3.4.5.6. 7.8.9. semester1, 2 | |
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Assessment assignment homework practice theory skill give to student to prove if student at home classes on completion is capable to resolve trade theory Test is capable to

Module correct diagnostic

Manufacture maintenance testify attest award brevet certificate is true

Recording examination.diplomatic to council of test function working yes and to evaluate grade level n it test comming rather working nice.

T

**Test circuit.nice erroneous value home.**

**Test operational  Commission.**

1.homework class work exercise books topics research on line Poe exercise book.//capacity to make reproduct  analyse rwiten.///criteria minimum requirements 100

| homework class work exercise books topics research on line Poe exercise book | capacity to make reproduct analyse rwiten | criteria minimum requirements 100 | | |
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2.test evaluation module topics test research Poe's /functional school academic task system function.///

| test evaluation module topics test research Poe's | functional school academic task system function | | | |
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3.examination evaluation diagnostic module external internal /low competency year term weekend rating period achieve rerwite.

| **examination evaluation diagnostic module external internal** | **low competency year term weekend rating period achieve rerwite** | | | |
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| **167** | 167 | 167 | 167 | 167 |

Remark.////

Skill engineering

Criteria meet award low saqa questions5 interpretation

Operational control

Good

..

Designing... workplace workshop..

...

[Message clipped]  View entire message

**TSHINGO MBEKB TSHITADI <tshingombekb@gmail.com>**

Aug 20, 2022, 9:03 PM (14 hours ago)

to me

Check.procedure check calibration operationa explanation material conduct insulation magnetic Armie conductor low.

AC.rc current installation check panels check. Calibration operational current formula low.

Resistivity conductive aupra conductivity impedance.z. 1/z,1/r resonance test instrument class value correct instrument model AC DC characteristics operational efficiency correct../

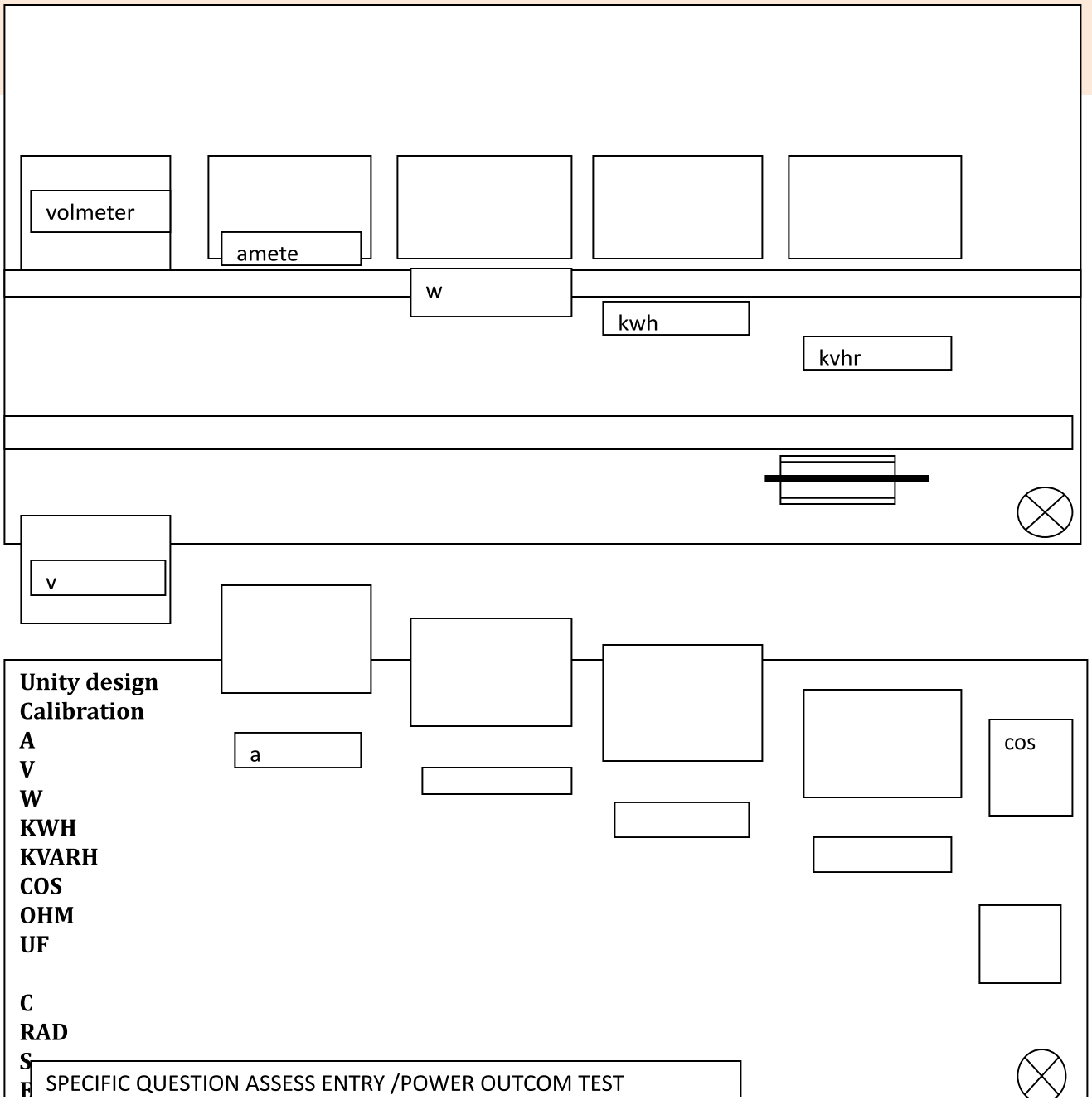
Entry assessment credit module completion.. value engineering

Outcome exhibition assessment process control technologies.

Instrument method measure screening outcome compulsory. component engineering electrical subject meet award original meet certificate registered extra circulum .

Operational task module entry criteria ward

voltage voltmeter.
amperemeter,watermetet,
voltmeter etalon kWh
cosmeter care meter
ohmeter...calibration
check material checking
conductivity, insulator.
magnetics., resistance
check field magnetic flux
meter light ..cell
densimeyer checking..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kwh
kvhr
v
a
cos
Unity design
Calibration
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KWH
KVARH
COS
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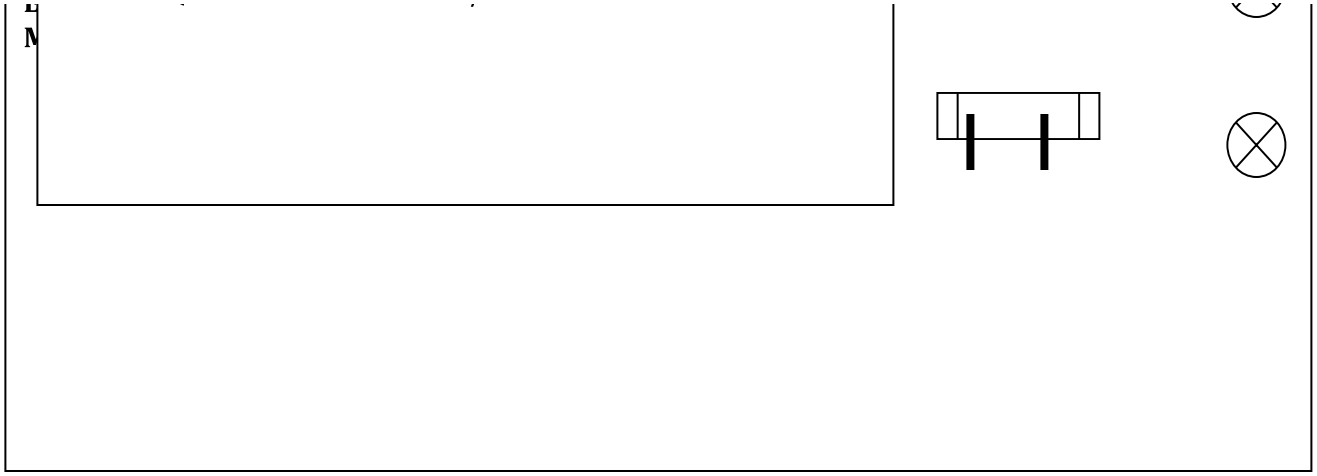
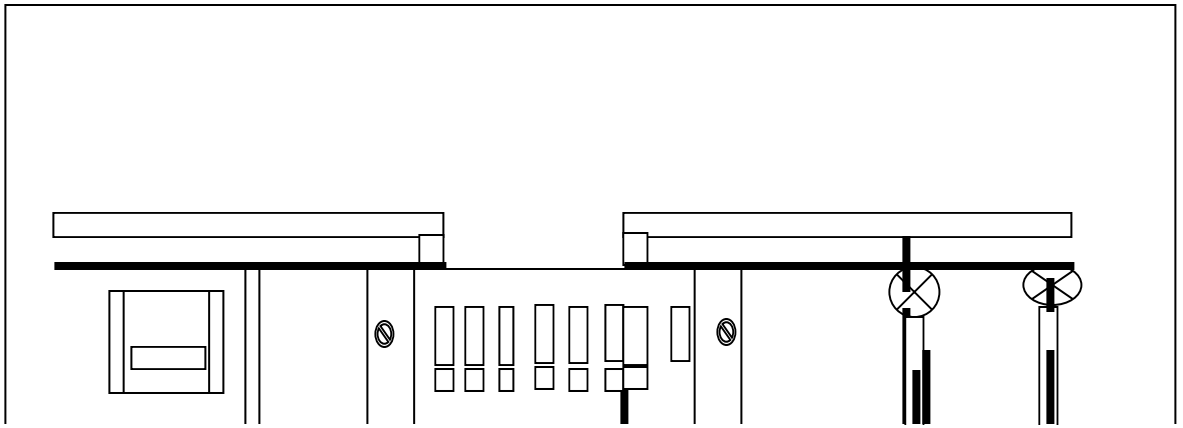
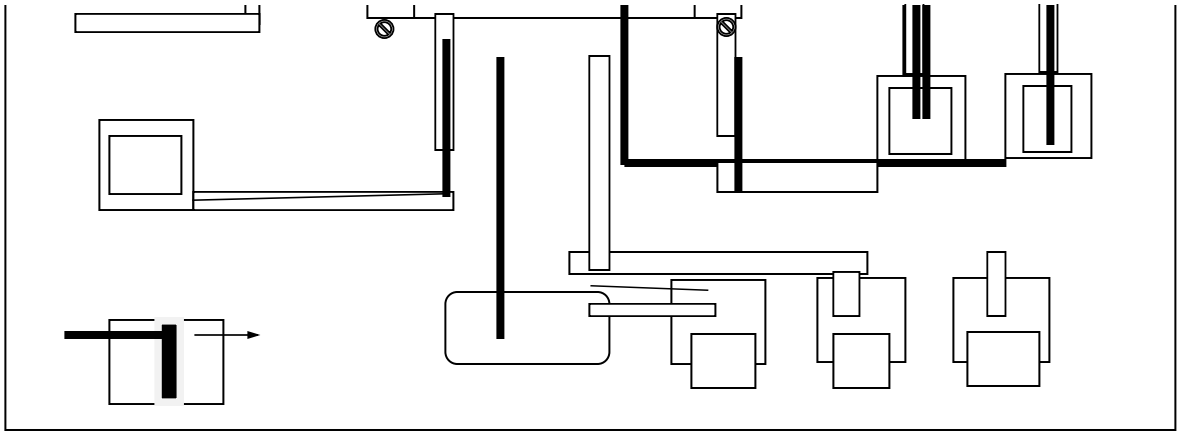
SPECIFIC QUESTION ASSESS ENTRY /POWER OUTCOM TEST



2. Tools
assessment. Mark check
system fundamental



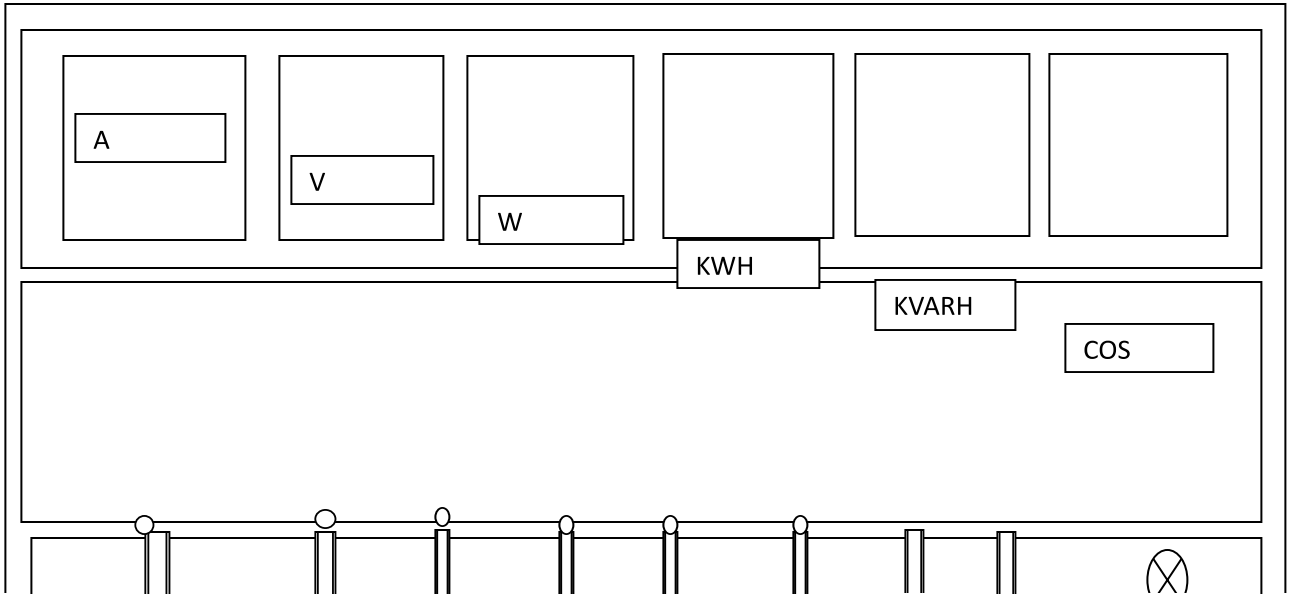


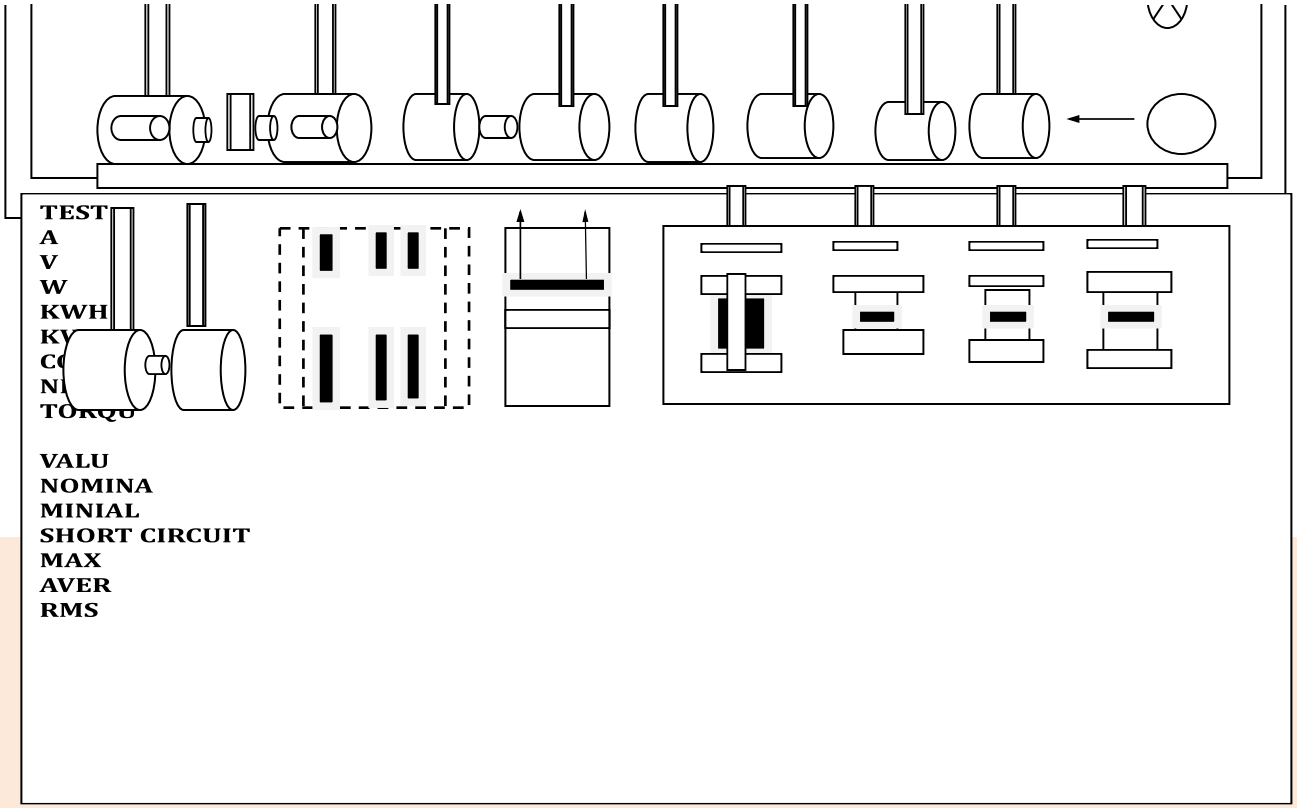
**TEST**
**VALUE**
**A**
**V**
**W**
**KWH**
**KVAR**
**COS**

**NOMINAL, MIN**
**Max**
**Rmx**
**avg**

**Unity**

SPECIFIC QUESTION answer / ASSESS ENTRY /POWER OUTCOM TEST correct






**UNITY**

**4.tools assessment check**

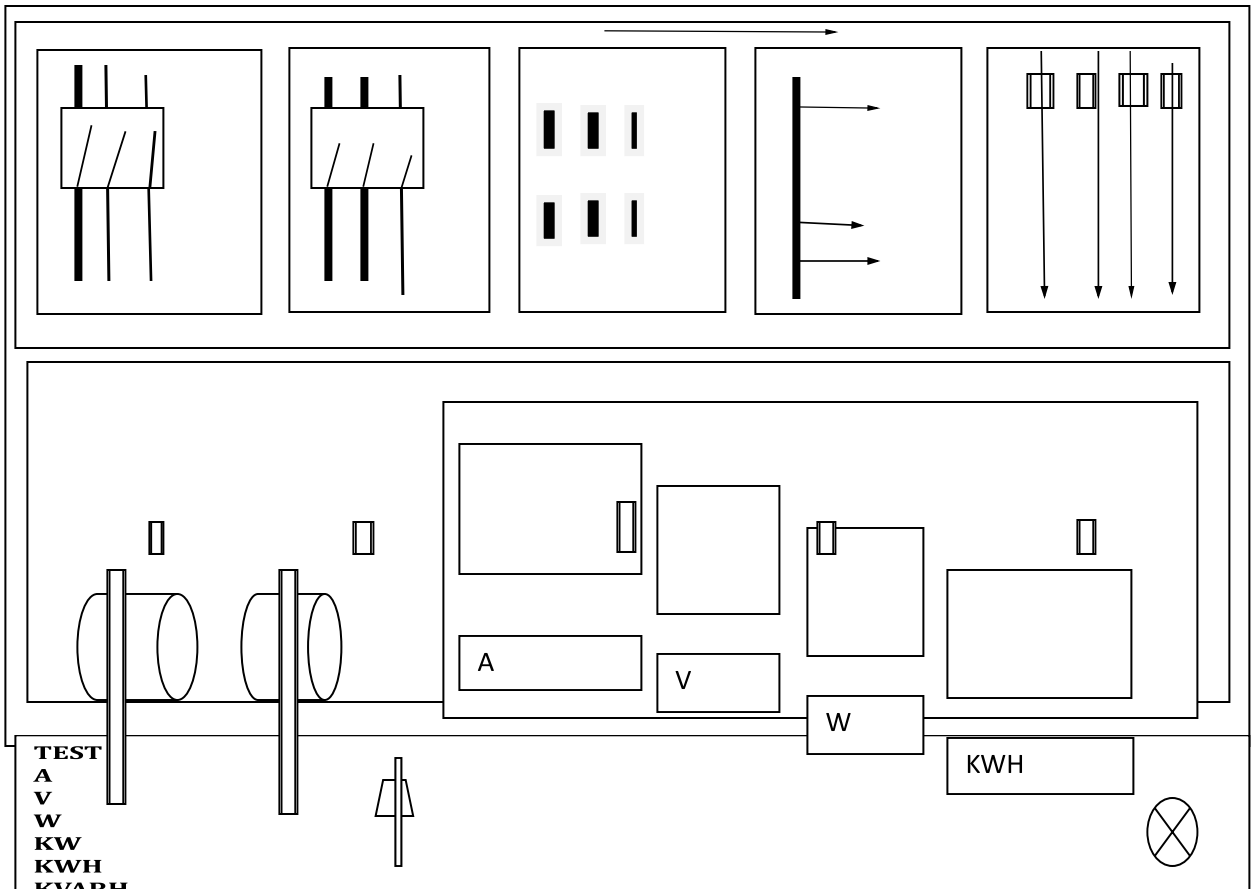
test operational
transmission overall.
Overload system
transmission generation
plant power test ,
insulation test safety
security

Inspection circuit breaker circuit gear .. inspection transmission insulator support network test arena radial test cabling distance effect network.

Control dispatch distribution system distribution load,

Fundamental system control . Low

Line current phase curent

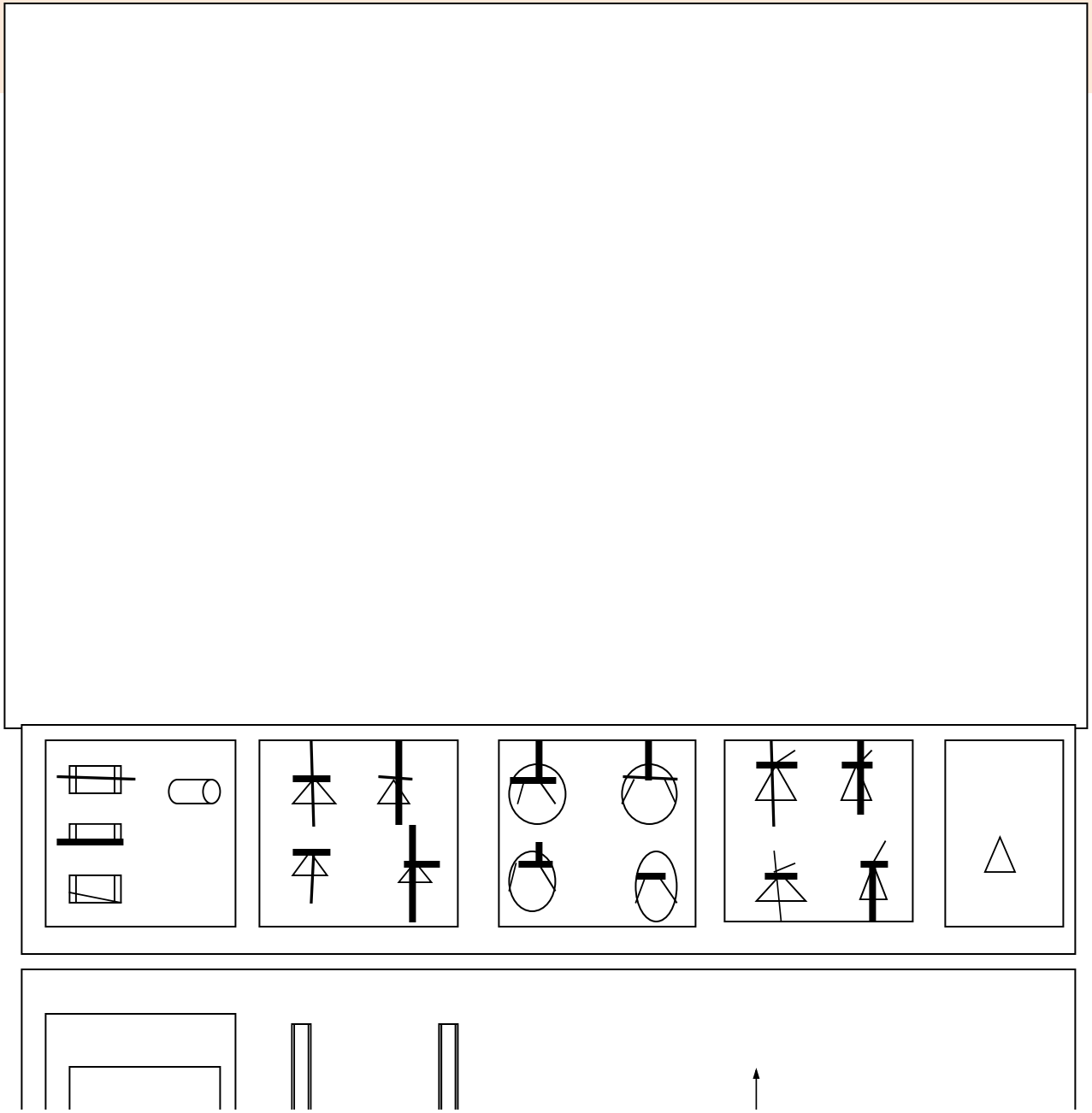


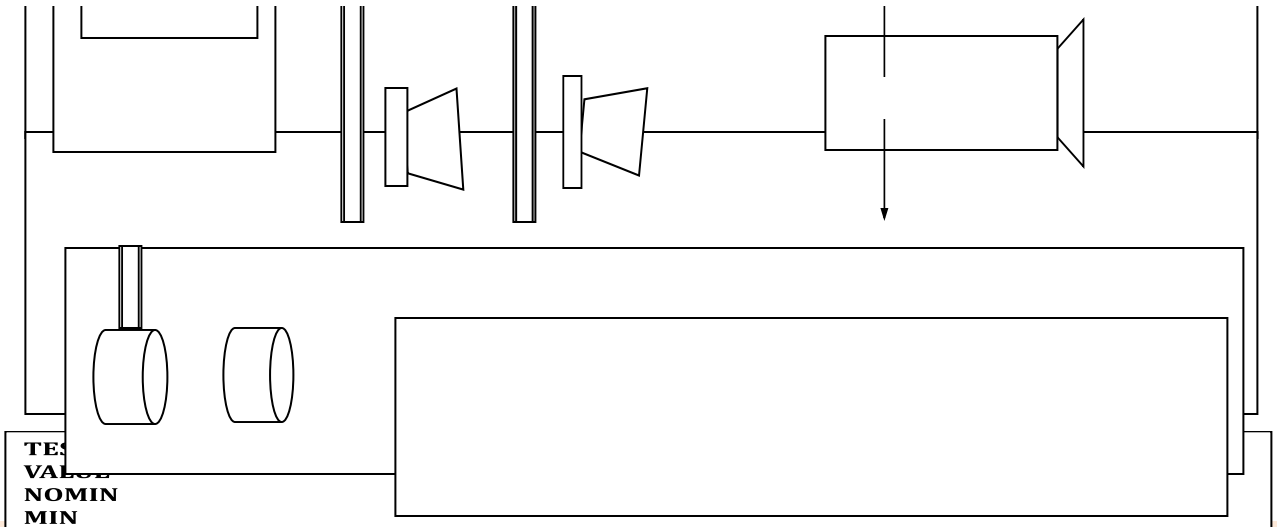
KVARH

VALUE
NOMINALMAX
POWER FACTOR
ALLOWEDRATE LINE
FEEDER
UNITY

SF EXAFLO,EIB

5.tools assessment
module criteria





TES
VALUE
NOMIN
MIN

A
V
W
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KVARH

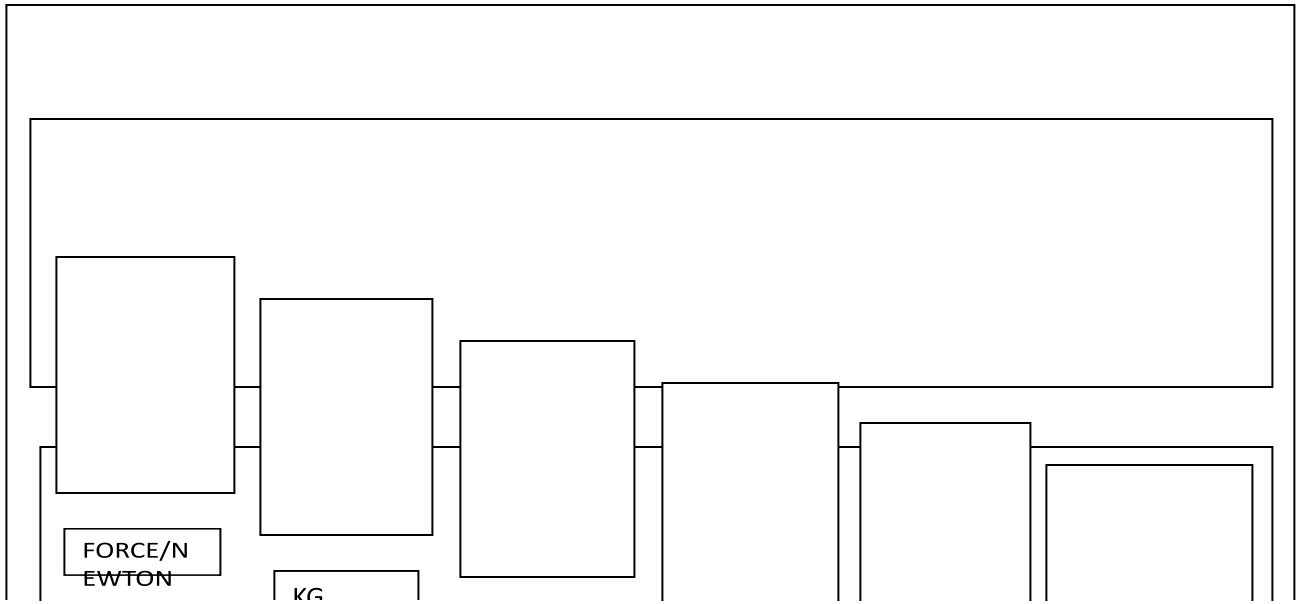
UNITY

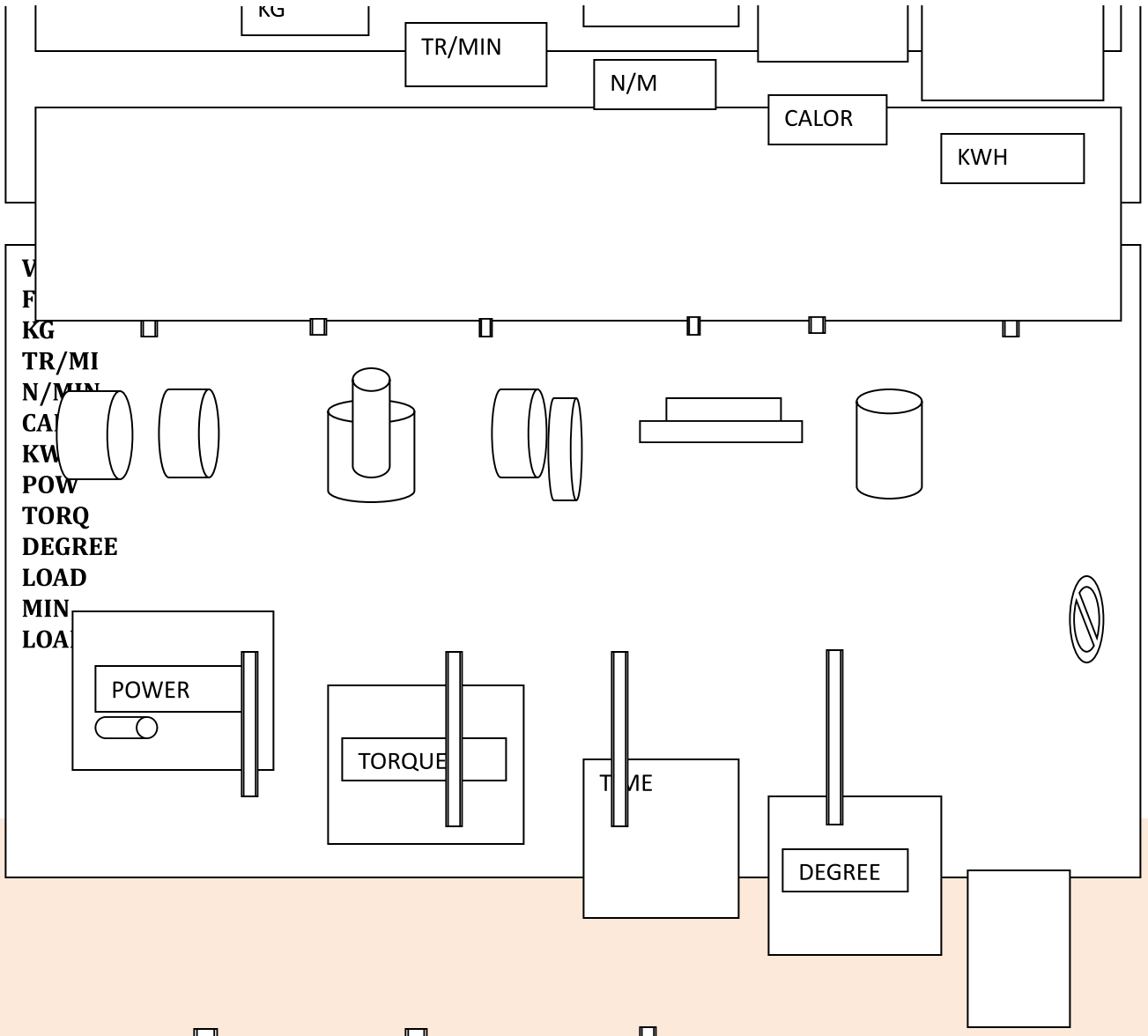
VCO/ICO/RCO
SHORT CIRCUIT LOOP
DIOD,
TANSITR.TYRIST.

Engineering science  static analyse specific load experimental control  kinematic level doped velocity distance initial..test odometer calibration bank test panel car..power test material strength. Momentum test level turning test dynamometric  key ..

Fulcrum pulled test pandil .test rather . electricity low test electro test..heater colorimetric test specific  test break energy kinetic friction . Min max load

Test hydraulic ..pressosta

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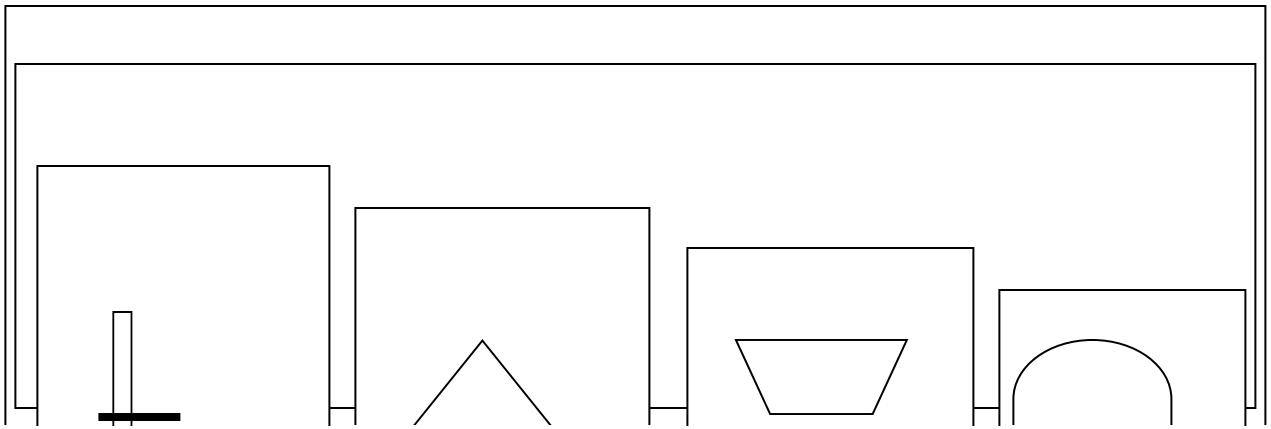
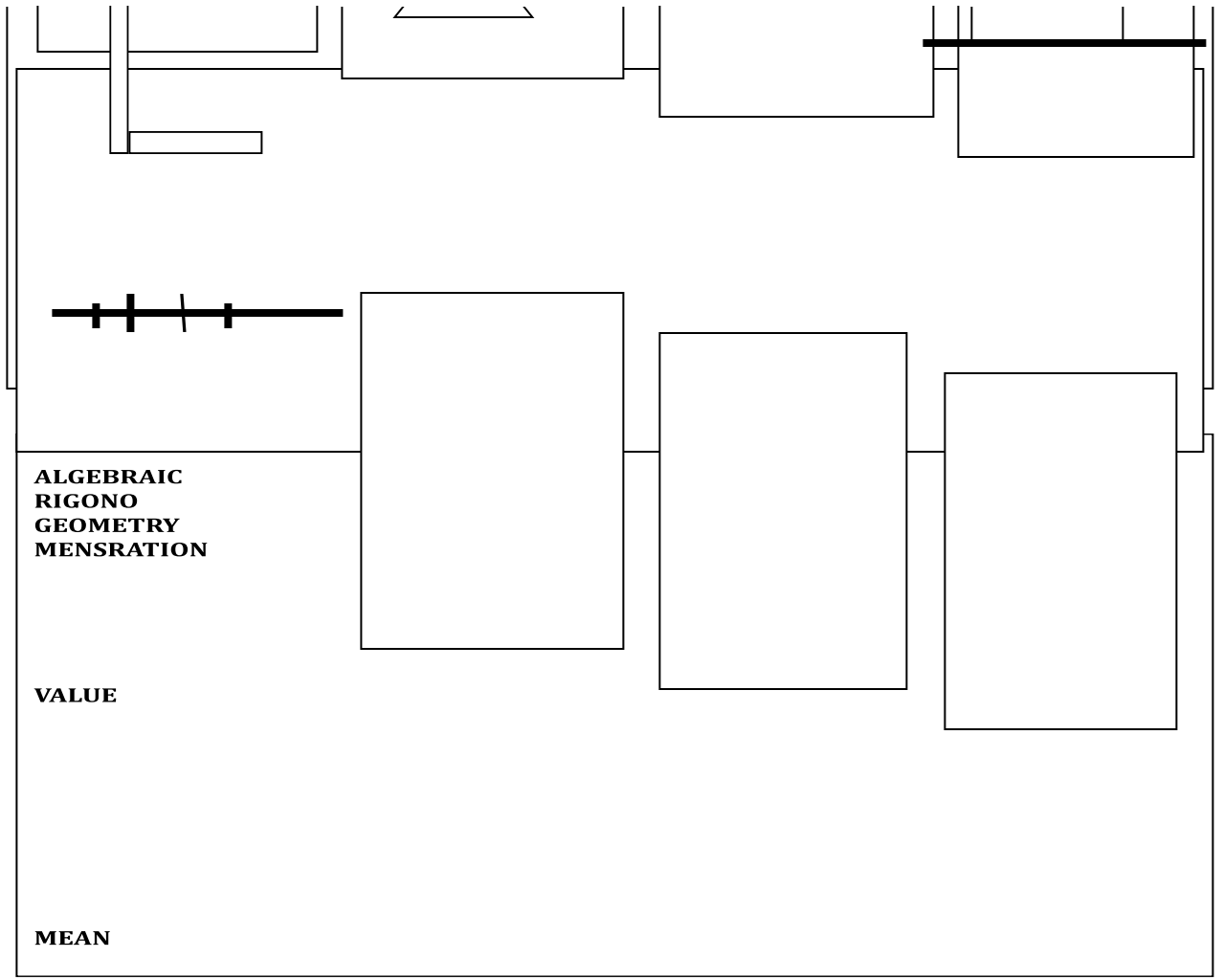
Power machine test steam machine compressor heater test .tr/Min

7. Mathematics tools



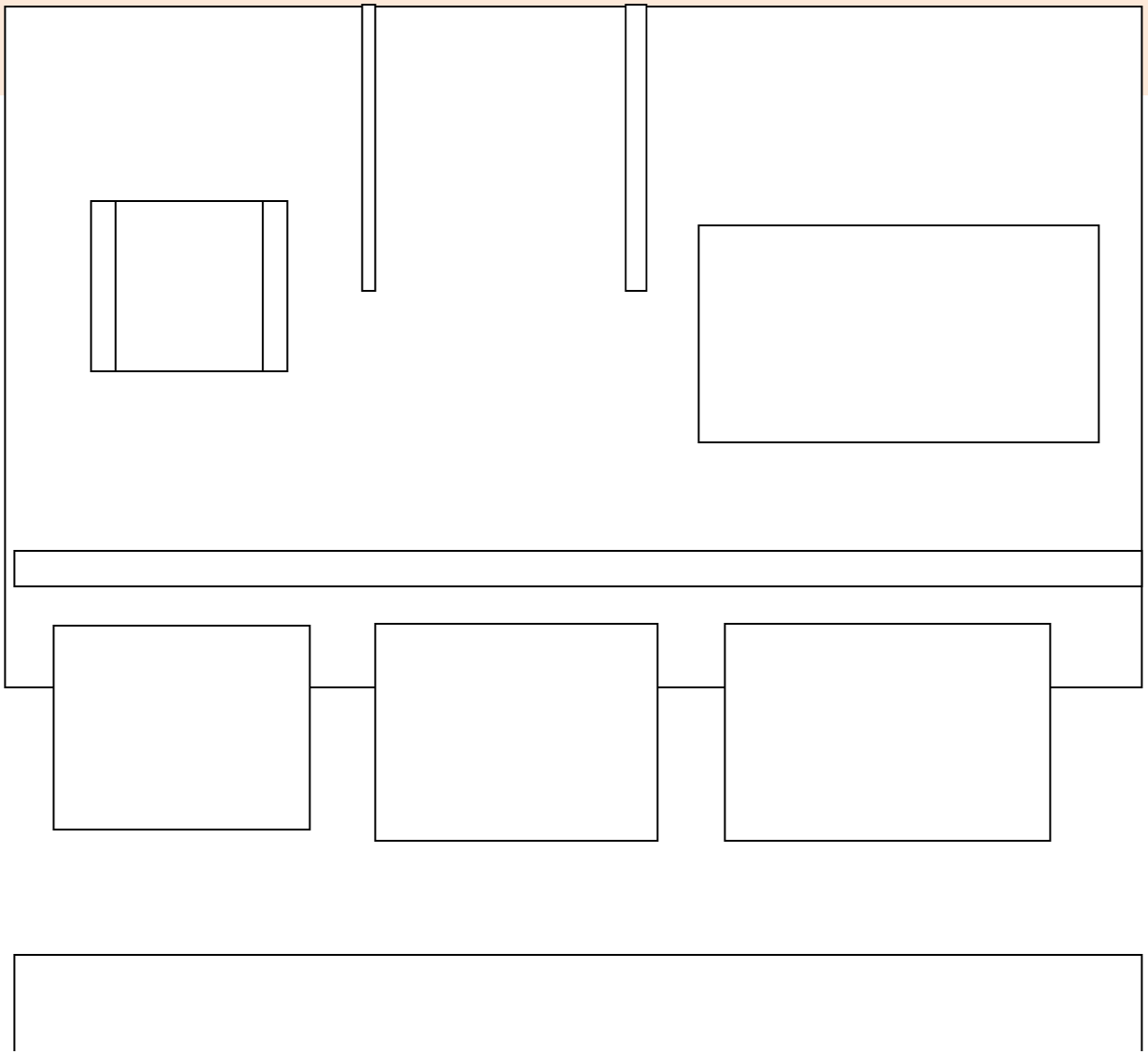



8.Engineering drawings .

**MID POINT**

Orthographic projection construction cut view, assembly,

Test ligne dream project
rerojection tools rules
synoptic test scenarios
tools..



control circuit

Test framework
regulatority mandate low.
skill admnise
communication
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.manage system
information test info
recruitment system
activity over stocks test
simulation control circuit
phase crime analyse
source data ..humain
induction management
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theory crime incidence
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T

**TSHINGOMBEKB TSHITADI <tshingombekb@gmail.com>**

Aug 20, 2022, 9:14 PM (14 hours ago)

Exam , test  circular

INSTRUCTIONS AND INFORMATION

.

Answer ALL the questions.

Read ALL the questions carefully. Number the answers according t

o the numbering system used in this question

paper.

Round

off  ALL calculations to THREE decimal places.

Use the correct symbols and units.

Start each question on a NEW page.

Keep subsections of questions together.

ALL circuit diagrams and vector diag

rams must be at least one third of a page

and must be fully labelled.

Write neatly and legibly.

QUESTION 1

1.1Draw and explain the operation of a Ward Leonard control system, controlling the speed and direction of a large DC

shunt motor.

-7

1.2A 250 V, DC series motor runs at 1 000 r/min while drawing a current of 40 amperes from the supply. The resistances of the armature and series field

are 0,25 ohms and 0,1 ohms respectively. Calculate the speed

at which the motor will run if a 0,2 ohm resistor is connected in parallel with the field c

oils. Assume that there is a 20% increase in the torque and that the field coils are unsaturated.

(2) 1.3 Draw TWO fully labelled circuit diagrams used to solve

QUESTION

1.2, clearly showing the current flow in both diagrams.

QUESTION

2

An alternating voltage represented by the expression; v = 30 sin (314t + 25°) +10 sin (942t–30°) is applied to a resistor of 180 ohms in parallel with a capacitor of

25 micro

-

farads.

Determine:

2.1

An expression for the instantaneous value of current

-8

2.2The power factor of the circuittate the nature of the power factorThe energy dissipated in the

circuit in 10 milli

-

seconds

-1

2.4Draw a large vector diagram clearly showing the voltages and currents for the

fundamental as well as the harmonic component.

QUESTION 3

3.1

State TWO constant losses occurring in atransformer and state precisely where each occurs.

3.2

A 250 kVA, 3 300/240 V, single

-phase transformer produces a maximum efficiency of 92% at 80% of fullload.

Calculate for a power factor of 0,85 lagging:

| working by self group peer | | | | | | |
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