Week 1:

**Collection Characteristic of requirement set**

1. Complete
2. Consistent
3. Feasible
4. Comprehensible
5. Validated

**BASIC FORM OF STATEMENT:**

Subject + priority + verb + object

Subject: the thing being specified

Priority: shall

Object: entity being acting upon the entity

**Sometimes with condition:**

Condition + subject+ priority+ verb+ object

**Qualification to the statement**

Condition+ subject + priority + verb + object+qualification

Week 2:

**Avoid indefinite article;**

Use ‘the’ instead of ‘a’

**Avoid vague word**

* All
* many
* Small
* large
* any
* many
* some
* several
* lot,
* few,
* approximate,
* nearly,
* expandable,
* effective,
* generic,
* optimal,
* small,
* large,
* high-speed
* medium-sized.

**ALL:**

Use each instead of all, any, both

**Avoid superfluous word:**

Shall be able to

**Avoid additional words** for explaining the purpose of the requirement.

**Avoid parenthesis brackets**

Week 3:

avoiding conjunctions

unless we introduce a formal convention for logical conditions.

**A conjunction is a word used to connect clauses in a sentence,**

**or to connect terms inside a clause.**

So, conjunctions of words such as 'and', 'or', 'then',

'unless', 'but', 'however', 'whether',

'meanwhile', 'whereas', and 'otherwise'.

rule phrases such as, 'as well as',

'but also', 'on the other hand' which are,

otherwise is saying those conjunctions.

Simultaneous requirement:

There are occasions where the two requirements are to be met at

The same time- we call those simultaneous requirements.

We use the word 'simultaneity' to relate to

those two requirements being needed at the same time.

AND ,OR:

capitals or

italics  in requirement statements.

Unbound words:

'and so on' leads to ambiguity

Exit vent it should be Exit\_vent1

Escape clause:

Uncertain words

* If feasible
* Where possible

Week 4:

**Use precision:**

100 should be 100+-2

**Use units:**

**Units should be specifies for example: Fahrenheit, Celsius, Kelvin.**

The temperature is 4 degrees

What 4 degrees?

If range not include then

Shall be less than or <3

**Avoid use of not**

Not is not verifiable

Example:

System not shall fail. Need infinite time for verification

The system shall have availability of greater or equal to 95%

**Avoid cross reference:**

The user interface shall display the location of the lead vehicle.

The user interface shall display the Identity of the same vehicle

If the two statement are separated then they will make no sense.

Also avoid words such as

'below', 'above', aforementioned', 'aforesaid',

'following', 'herein', 'hereafter', and 'preceding'.

**Avoid use of pronouns:**

It, they, he, she, this, that, their, them