




PLC Coding Style

Variables

-  Camel case
-  First letter in Lower case
-  Prohibited "_"



Example:

- ✓ ready, isUp
- ✓ run, stop, up

⚠ Grouped variables that cannot be in a structure can use "_":

- ✓ motor1_run
- ✓ motor1_stop




Constants

-  Snake case
-  All Upper case

Example:

- ✓ STATUS_0_DONE
- ✓ ERROR_NOT_FOUND

Structures Data Types

-  Camel case
-  1st letter in lower case
-  Prohibited "_"

Example:

- ✓ userData, motor
- ✓ nameOfStructure



```
STRUCTURE motor
  isRunning: bool
  command: int
  error: bool
END STRUCTURE
```

Enumerations

- Definition follows Structure rules.
- Data follows Constant rules.

```
ENUMERATION status
  ID_0_NIL : int := 0
  ID_2_BUSY : int := 2
END ENUMERATION
```



Data Containers (DB/DI)

-  Snake case
-  All Upper case

Example:

- ✓ DB_NAME
- ✓ MOTOR1, SYSTEM



Program Organization Units

-  Snake case
-  All Upper case

Example:


- ✓ MAIN, CYCICAL, HW_INTERRUPT
- ✓ OB001_MAIN (Siemens compatibility)

Subroutines Procedures

-  Camel case
-  First letter in Upper case



Example:

- ✓ Group1
- ✓ Controllers

- ⚠ "_" can be used for semantic ordering
-  "_" Prohibited in other case

```
OB001_MAIN:
├─ FC: Group1
├─ FB: Motor1_control, DB: MOTOR1
├─ FB: Motor2_control, DB: MOTOR2
├─ FC: Group2
├─ FB: Motor3_control, DB: MOTOR3
└─ FB: Motor4_control, DB: MOTOR4
```


Functions

-  Camel case
- ✓ "_" Must be the first char.
-  First letter in Lower case

Example:

- ✓ _foo(), _calc(), _measure()
- ✓ _add(), _toggle()

Interfaces

-  Camel case
- ✓ "I" Must be the first char.

Example:

- ✓ IMotor, ILamp
- ✓ IAlarm, IMotion

 Prohibited Hungarian Notation

⚠ Safety data may have the prefix "F_"