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# Programming ISaGRAF

V1.0

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# Programming ISaGRAF for iPro

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# 1. Syntax

See ISaGRAF General Guide:

- \ISaGRAF\_installation\_package\1) ISaGRAF general guide\ISaGRAF General guide.pdf
  - **Chapter 6** - Function Block Diagram (FBD) Language
  - **Chapter 7** - Structured Text (ST) Language

More tutorials from the web:

- <https://www.plcacademy.com/function-block-diagram-programming/>
- <https://www.plcacademy.com/structured-text-tutorial/>
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## 2. Reserved Keywords

ISaGRAF has some reserved keywords which are unavailable for use as names of POUs(\*) or variables.

See ISaGRAF General Guide:

- \ISaGRAF\_installation\_package\1) ISaGRAF general guide\ISaGRAF General guide.pdf
  - **Chapter 5** - Reserved Keywords

(\*) POU - Program Organization Unit - Program or Function or Function block.

## 3. Available Blocks

**Basic Blocks** - See ISaGRAF General Guide:

- \ISaGRAF\_installation\_package\1) ISaGRAF general guide\ISaGRAF General guide.pdf
  - **Chapter 9** - Operators
  - **Chapter 10** - Functions
  - **Chapter 11** - Function Blocks
  - **Chapter 12** - BIOS

**Library Blocks** - See iPro site:

- <https://ipro.academy/project-category/libraries/>
  - **Gen** - General Library
  - **AHU** - Air Handling Unit Library
  - **HVAC** - Heating, Ventilating and Air Conditioning Library

## 4. How to Use Function Blocks

See iPro site:

- <https://ipro.academy/courses/isagraf-workbench-course/>

See youtube video:

- <https://www.youtube.com/watch?v=gbeAm98Vaf0> (ISaGRAF v6.1 - English - User Function / Function Block)

See ISaGRAF General Guide:

- \\IsaGRAF\_installation\_package\1) ISaGRAF general guide\**ISaGRAF General guide.pdf**
  - **Chapter 14** - Libraries

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# Congratulations!

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Now you can program your ISaGRAF

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