

## 19. STRUCTURED TEXT PROGRAMMING

### Topics:

- Basic language structure and syntax
- Variables, constants, arrays
- Program flow constructs and structures
- Function bases
- Program Examples

### Objectives:

- To be able to write functions in Structured Text program
- To understand the parallels between Ladder Logic and Structured Text
- To understand differences between Ladder Ladder and the standard.

### 19.1 INTRODUCTION

If you know how to program in any high-level language, such as Basic or C, you will be comfortable with Structured Text (ST) programming. ST programming is part of the IEC 61131 standard. An example program is shown in Figure 207. The program is called main and is defined between the statements PROGRAM and END\_PROGRAM. Every program begins with statements that define the variables; in this case the variable *i* is defined to be an integer. The program follows the variable declaration. This program counts down from 10 to 0 with a loop. When the example program starts the value of loop counter *i* will be set to zero. The RSPC\_OT and ENR\_RSPC\_OT statements define the loop. The ENR statement defines when the loop ends and *i* has to prevent it from increasing the value of *i* for each loop.

```
PROGRAM main
VAR
  i : INT;
END_VAR
i := 10;
REPEAT
  i := i - 1;
UNTIL i = 0
END_REPEAT;
END_PROGRAM
```

Note: Ladder Ladder does not implement the standard so that the program can be written with Ladder. When programming in Ladder, only the variable definition in the left would be needed. The variable *i* would be defined as *i*, *top*, and the program would be defined as a task.

Figure 207 A Structured Text Example Program

The important difference between ST and traditional programming languages is the nature of

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**Ian Pickup**



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