MPS Software Qualification Setup:

1. Place the qual.tar.gz into the folder where it's going to be used
2. Unzip qual file
3. Once the it's uncompressed, list qual directory, and there should be 3 subdirectories (3party, common and qual)

```
$ ls qual
```

3. Move into 3party directory. This directory contains all package and tools required to run the MPS Software Qualification.

```
$ cd 3party
```

4. Run:

```
$ sudo easy_install pip
```

5. Install all features, tools and packages:

```
$ sudo ./setup.sh
```

Now, the system should be ready to run the MPS Software Qualification.

3party application:

RS-485 Module:

1. In order to run RS-485 Module, an external application should be launched to send data through RS-485 devices to the QTA.
2. Open a terminal.
3. Move to rs485 extern tool directory subdirectory.

```
$ cd 3party/Extern_Rs485
```

4. Run Extern_Rs485 -h to see the available options

```
$ sudo python Extern_Rs485.py
```

5. Run Extern_Rs485

```
$ sudo python Extern_Rs485.py  -p <port> -b <baudrate> [-m]
```

Note that if run Extern_Rs485 with -m arg, some corrupted data will be sent.

Running:

1. Open a terminal.
2. Move to qta subdirectory:

```
$ cd qual/src/qual/qta
```

3. Run QTA application:

```
$  sudo python qta.py
```

4. Open another terminal.
5. Move to QTE subdirectory

```
$ cd qual/src/qual/qte
```

6. Run QTE application:

```
$ sudo python qteMebnu.py
```

7. A list of all modules available should diplay and Follow the option prompts.