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Revision 2  
1019  
12/22/75

THREE MILE ISLAND NUCLEAR STATION  
STATION ADMINISTRATIVE PROCEDURE 1019  
QUALIFICATION OF PERSONNEL PERFORMING SPECIAL PROCESSES

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| 19.0 |          |          | 44.0 |      |          | 69.0 |      |          |
| 20.0 |          |          | 45.0 |      |          | 70.0 |      |          |
| 21.0 |          |          | 46.0 |      |          | 71.0 |      |          |
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| 23.0 |          |          | 48.0 |      |          | 73.0 |      |          |
| 24.0 |          |          | 49.0 |      |          | 74.0 |      |          |
| 25.0 |          |          | 50.0 |      |          | 75.0 |      |          |

Unit 1 Staff Recommends Approval  
Approval MA Date \_\_\_\_\_  
Cognizant Dept. Head

Unit 2 Staff Recommends Approval  
Approval MA Date \_\_\_\_\_  
Cognizant Dept. Head

Unit 1 PORC Recommends Approval  
J.P. O'Hanlon Date 12-11-75  
Chairman of PORC

Unit 2 PORC Recommends Approval  
Norman Williams Date 12-12-75  
VICE-Chairman of PORC

PORC comments of \_\_\_\_\_ included  
(date) \_\_\_\_\_  
By \_\_\_\_\_ Date \_\_\_\_\_

PORC comments of \_\_\_\_\_ included  
(date) \_\_\_\_\_  
By \_\_\_\_\_ Date \_\_\_\_\_

Approval F. Sawyer Date 12/16  
Mgr., Operational Quality Assurance

Approval [Signature] Date 12-22-75  
Station Superintendent/  
Unit Superintendent

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THREE MILE ISLAND NUCLEAR STATION  
STATION ADMINISTRATIVE PROCEDURE 1019  
QUALIFICATION OF PERSONNEL PERFORMING SPECIAL PROCESSES

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1.0 General

1.1 Purpose

This Administrative Procedure establishes the requirements to assure that special processes are controlled and accomplished by qualified personnel using approved and qualified procedures in accordance with applicable codes, standards, specifications, criteria, and other special requirements.

1.2 Scope

This procedure delineates the requirements for qualifying the personnel to perform the special processes such as Welding, non-destructive examination (NDE) and heat treating to comply with approved and qualified procedures in accordance with applicable codes, standards criteria and other special requirements which govern nuclear safety related (and non nuclear) structures, systems and components.

1.3 References

- 1.3.1 ASME Boiler & Pressure Vessel Codes - All applicable sections.
- 1.3.2 A.S.N.D.T. Recommended Practice SNT-TC-1A
- 1.3.3 USAS B31.7 - latest issue
- 1.3.4 Metropolitan Edison Technical Specifications
- 1.3.5 A.E.C. 10 CFR 50 Appendix B, Criterion IX.
- 1.3.6 ANSI - 45.2
- 1.3.7 Attached - Attachments 1 thru 5
- 1.3.8 Met-Ed OQA Plan Rev. 6

2.0 Responsibilities

- 2.1 The Manager Generation Maintenance and the Supervisor of Maintenance

shall be responsible for assuring that only qualified and certified personnel are assigned to perform the special processes such as welding, heat treating, etc.

- 2.2 The Manager-Operational Quality Assurance shall be responsible for assuring that only qualified and certified personnel are assigned to perform Non-Destructive Examinations. He shall fulfill this responsibility by means of surveillance and audits of performance and supporting certification. The Manager-OQA is further responsible for the training, examination, qualification and certification of the personnel who perform non-destructive examinations. He shall also be responsible for the maintenance of all the related documents which are subject to audit.
- 2.3 The Supervisor of Maintenance shall be responsible for the training, examination, qualification and certification of the personnel who perform the special processes such as welding, heat treating, and those other processes where assurance of process quality depends on the basic skill of an individual and cannot be assured by the inspection process per se. He shall also be responsible for maintaining the certification records, resumes, and other records which are subject to audit.
- 2.4 The Manager-Generation Maintenance, Supervisor of Maintenance, and the Manager-Operational Quality Assurance shall be responsible for maintaining the necessary records for their personnel which are required to meet the Met-Ed Technical Specifications and applicable code requirements. These records shall include the following (see sample forms attached).
1. Weld procedure qualification Test - Attachment No's 1 & 2

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2. Welder or welding operator Qualifications - Attachment No's 3 & 4.
3. Non-destructive Test Personnel Qualification Record Form - Attachment No. 5.
4. List of equipment type, model and serial #'s with maintenance and calibration history used for nondestructive examinations by the Quality Control Department (e.g., radiographic, ultrasonic and leak detection equipment.)
5. List of qualified Testing Laboratories, their personnel and equipment whose services were used to perform N.D.E. where required in the T.M.I. Plant.

3.0 Requirements

3.1 Welding

- a. All welders for all types of manual and machine arc and gas welding processes permitted by the ASME Codes shall be qualified to ASME Sec. IX and certified by Metropolitan Edison Company, prior to performing any welding on structures, systems, or components built under the ASME Code.
- b. Records shall be maintained of the test results obtained in welding procedures and welder performance qualifications and the results of examinations of welding operators.
- c. These records shall be accessible to the authorized inspector and the Manager-Operational Quality Assurance for review and audit.
- d. Welders and welding operators shall be requalified when necessary per the requirements and conditions of Section IX ASME Code.

3.2 Heat Treating and Other Special Processes

- a. Special processes shall be performed in accordance with qualified and approved procedures developed by Met-Ed Engineering disciplines and by personnel who have proven to the Supervisor of Maintenance their knowledge and ability to carry out the process in accordance with the acceptance standard of the process being accomplished.
- b. Certification and periodic re-certification of special process personnel and equipment shall be done in accordance with Met-Ed procedure.
- c. The Supervisor of Maintenance, if necessary, shall set up a training program which will assure the availability of qualified personnel required to perform the special process involved in plant operations.

3.3 Non-Destructive Examinations

- a. Personnel, prior to performing any Non-Destructive Examinations, e.g., Magnetic Particle (MT), Liquid Penetrant (PT), Ultrasonic Test (UT), and Radiography (RT) shall be qualified and certified in accordance with the ASME Codes and SNT-TC-1A.
- b. The Manager-OQA shall establish a program which will make available the personnel required to perform the N.D.E. required for the day to day activities in the TMI Plant. This will include training, examination, qualification and certification per the recommendations and requirements of SNT-TC-1A and the applicable codes. (ASME, 10 CFR 50, ANSI-45.2, etc.).
- c. At the option of the Manager-Operational Quality Assurance, an outside agency may be engaged to perform the NDE services required.

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This can include the services of a Level III examiner to qualify Level II and Level I personnel or to perform the actual NDE services required, e.g., MT or RT, etc. However, the Manager-QQA shall be responsible for the certification of his personnel and/or the documentation of the QC services performed by the outside agency.

Attachment #1  
Rev. 1 10/22/75

|                        |                    |    |   |
|------------------------|--------------------|----|---|
| Sheet                  | 1                  | of | 3 |
| Standard               | 3801.002           |    |   |
| Proc. Qual. Rec. (PQR) |                    |    |   |
| Date                   | September 20, 1974 |    |   |
| Revision No            | 1                  |    |   |

# METROPOLITAN EDISON COMPANY

## GENERATION DIVISION

WELDING PROCEDURE QUALIFICATION RECORD NO. \_\_\_\_\_ DATE \_\_\_\_\_  
WPS NO. \_\_\_\_\_

WELDING PROCESS(ES) \_\_\_\_\_

WELDER \_\_\_\_\_ EMP. NO. \_\_\_\_\_ STAMP NO. \_\_\_\_\_ TYPES \_\_\_\_\_  
(Manual, Automatic, Semi-Aut.)

|                         |   |
|-------------------------|---|
| JOINTS                  | BASE METALS   |
|                         | Material Spec. _____<br>Type or Grade _____<br>P No. _____ to P No. _____<br>Thickness _____ Range _____<br>Diameter _____ Range _____<br>Other _____ |
| FILLER METALS           | POSITION  |
|                         | Position of Groove _____<br>Weld Progression _____<br>(Uphill, Downhill)<br>Other _____   |
| POSTWELD HEAT TREATMENT | PREHEAT   |
|                         | Preheat Temp. _____<br>Interpass Temp. _____<br>Other _____   |
| GAS                     | Type of Gas or Gases _____<br>Composition of Gas Mixture _____<br>Other _____   |
|                         | Temperature _____<br>Time _____<br>Other _____  |
| 7.0                     |   |
| APPR BY _____           | APPR BY _____   |
| APPR BY _____           | APPR BY _____   |



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Attachment #1  
Rev. 1 10/22/75

METROPOLITAN EDISON COMPANY  
GENERATION DIVISION

Sheet 2 of 3  
Standard 3804.002  
Proc. Qual. Rec. (PQR)  
Date September 20, 1974  
Revision No 1

| ELECTRICAL CHARACTERISTICS |  | TECHNIQUE                                 |  |
|----------------------------|--|---|--|
| Current _____              |  | String or Weave Bead _____                |  |
| Polarity _____             |  | Oscillation _____                         |  |
| Amps _____ Volts _____     |  | Multipass or Single Pass _____ (per side) |  |
| Travel Speed _____         |  | Single or Multiple Electrodes _____       |  |
| Other _____                |  |   |  |

| TENSILE TEST |       |           |      |                         |                          |                                 |
|--------------|-------|-----------|------|-------------------------|--------------------------|---------------------------------|
| SPECIMEN NO. | WIDTH | THICKNESS | AREA | ULTIMATE TOTAL LOAD LB. | ULTIMATE UNIT STRESS PSI | CHARACTER OF FAILURE & LOCATION |
|              |       |           |      |                         |                          |                                 |
|              |       |           |      |                         |                          |                                 |
|              |       |           |      |                         |                          |                                 |
|              |       |           |      |                         |                          |                                 |

| GUIDED BEND TEST    |        |                     |        |
|---------------------|--------|---------------------|--------|
| TYPE AND FIGURE NO. | RESULT | TYPE AND FIGURE NO. | RESULT |
|                     |        |                     |        |
|                     |        |                     |        |
|                     |        |                     |        |

| TOUGHNESS TESTS |                |            |           |               |             |      |             |          |
|-----------------|----------------|------------|-----------|---------------|-------------|------|-------------|----------|
| SPECIMEN NO.    | NOTCH LOCATION | NOTCH TYPE | TEST TEMP | IMPACT VALUES | LATERAL EXP |      | DROP WEIGHT |          |
|                 |                |            |           |               | X SHEAR     | MILS | BREAK       | NO BREAK |
|                 |                |            |           |               |             |      |             |          |
|                 |                |            |           |               |             |      |             |          |
|                 |                |            |           |               |             |      |             |          |
|                 |                |            |           |               |             |      |             |          |

Type of Test \_\_\_\_\_

Deposit Analysis \_\_\_\_\_

Other \_\_\_\_\_

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APPR BY \_\_\_\_\_ APPR BY \_\_\_\_\_ APPR BY \_\_\_\_\_

METROPOLITAN EDISON COMPANY  
GENERATION DIVISION

|                        |                    |    |   |
|------------------------|--------------------|----|---|
| Sheet                  | 3                  | of | 3 |
| Standard               | 3801.002           |    |   |
| Proc. Qual. Rec. (PQR) |                    |    |   |
| Date                   | September 20, 1974 |    |   |
| Revision No            | 1                  |    |   |

Result - Satisfactory \_\_\_\_\_ Penetration into Parent Metal \_\_\_\_\_  
Yes, No Yes, No

Type and Character of Failure \_\_\_\_\_ Macro-Results \_\_\_\_\_

Welder's Name \_\_\_\_\_ Employee No. \_\_\_\_\_ Stamp No. \_\_\_\_\_

Tests conducted by: \_\_\_\_\_ Laboratory Test No. \_\_\_\_\_  
per: \_\_\_\_\_

We certify that the statements in this record are correct and that the test welds were prepared, welded and tested in accordance with the requirements of Section IX of the ASME Code.

Signed METROPOLITAN EDISON COMPANY

Date \_\_\_\_\_ By \_\_\_\_\_  
Welding Engineer

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QB-483

SECTION IX - PART QB BRAZING

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Attachment No. 2  
Revision 1  
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QB-483 Brazing Procedure Qualification Record

RECOMMENDED FORM - MANUFACTURER'S RECORD OF  
BRAZING PROCEDURE QUALIFICATION TESTS

Specification No. \_\_\_\_\_ Date \_\_\_\_\_  
 Brazing Process \_\_\_\_\_ Manual or Machine \_\_\_\_\_  
 Material Specification \_\_\_\_\_ to \_\_\_\_\_ of P No. \_\_\_\_\_ to P No. \_\_\_\_\_  
 Thickness Range this test qualifies \_\_\_\_\_  
 Brazing Alloy Group No. F- \_\_\_\_\_ FLUX AND/OR ATMOSPHERE \_\_\_\_\_  
 Brazing Alloy analysis if not covered by F-No. \_\_\_\_\_ Flux Trade Name or Composition \_\_\_\_\_  
 Brazing Temperature range \_\_\_\_\_ Shielding gas \_\_\_\_\_  
 Position of Joint \_\_\_\_\_ Character of furnace atmosphere \_\_\_\_\_  
 (See \_\_\_\_\_) Postheat treatment \_\_\_\_\_

INFORMATION ONLY

Brazing alloy type (whether insert, rod, preformed, shim, etc.) Joint dimensions accord with Sketch No. \_\_\_\_\_

REDUCED SECTION TENSILE TEST (QB-463.1, QB-463.2, and QB-463.3)

| Specimen No. | Dimensions |           | Area | Ultimate Total Load, Lb | Ultimate Unit Stress, Psi | Character of Failure and Location |
|--------------|------------|-----------|------|-------------------------|---------------------------|-----------------------------------|
|              | Width      | Thickness |      |                         |                           |                                   |
|              |            |           |      |                         |                           |                                   |

GUIDED BEND TESTS (QB-463.5 and QB-463.6)

| Type and Figure No. | Result | Type and Figure No. | Result |
|---------------------|--------|---------------------|--------|
|                     |        |                     |        |

PEEL OR SECTIONING TEST (QB-463.8, QB-463.9, and QB-464.1)

| Type and Figure No. | Result | Type and Figure No. | Result |
|---------------------|--------|---------------------|--------|
|                     |        |                     |        |

Brasor's Name \_\_\_\_\_ Clock No. \_\_\_\_\_ Stamp No. \_\_\_\_\_  
 Dibs by virtue of these tests meets brasor performance requirements.  
 Test Conducted by \_\_\_\_\_ Laboratory Test No. \_\_\_\_\_  
 per \_\_\_\_\_

We certify that the statements in this record are correct and that the test brasors were prepared, brazed, and tested in accordance with the requirements of Section IX of the ASME Code.

Date \_\_\_\_\_ Signed \_\_\_\_\_ (Manufacturer)  
 By \_\_\_\_\_

This Form is obtainable from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

# METROPOLITAN EDISON COMPANY

## GENERATION DIVISION

### Welder or Welding Operator Qualification Tests

Attachment 3  
Rev. 1 10/22/77

|                        |
|------------------------|
| Sheet 1 of 2           |
| Standard 3801.003      |
| Weld. Perf. Qual. Test |
| Date June 4, 1975      |
| Revision No 1          |

Welder Name \_\_\_\_\_ Employee No. \_\_\_\_\_ Stamp No. \_\_\_\_\_

Welding Process \_\_\_\_\_ Type \_\_\_\_\_  
(Fillet, Groove, Etc.)

In accordance with Welding Procedure Specification (WPS) \_\_\_\_\_

Backing \_\_\_\_\_

ASME  
Material Spec. \_\_\_\_\_ to \_\_\_\_\_ of P No. \_\_\_\_\_ to P No. \_\_\_\_\_  
Thickness \_\_\_\_\_ Dia. \_\_\_\_\_

AWS  
Filler Metal Spec. No. \_\_\_\_\_ F No. \_\_\_\_\_  
Other \_\_\_\_\_

Position \_\_\_\_\_

Electrical Characteristics Current \_\_\_\_\_ Polarity \_\_\_\_\_  
Amps \_\_\_\_\_ Volts \_\_\_\_\_

FOR INFORMATION ONLY

Filler Metal Diameter and Trade Name \_\_\_\_\_

Flux for Submerged Arc or Gas for Inert Gas Shielded Arc \_\_\_\_\_

Weld Progression \_\_\_\_\_

Approx. Travel Speed \_\_\_\_\_ ipm

#### GUIDED BEND TEST RESULTS

| Type and Figure No. | Result | Type and Figure No. | Result |
|---------------------|--------|---------------------|--------|
|                     |        |                     |        |
|                     |        |                     |        |

Radiographic Results: For alternative qualification of groove welds by Radiography: \_\_\_\_\_

Test Conducted by \_\_\_\_\_ Laboratory-Test No. \_\_\_\_\_  
per \_\_\_\_\_ Test Date \_\_\_\_\_

APPR. BY \_\_\_\_\_ APPR. BY \_\_\_\_\_ APPR. BY \_\_\_\_\_

METROPOLITAN EDISON COMPANY

GENERATION DIVISION

FILLET WELD TEST RESULTS

|                        |
|------------------------|
| Attachment 3           |
| Rev. 1 10/22/75        |
| Sheet 2 of 2           |
| Standard 3801.003      |
| Weld. Perf. Qual. Test |
| Date June 4, 1975      |
| Revision No. 1         |

Fracture Test \_\_\_\_\_  
(Describe the location, nature and size of any crack or tearing of the specimen)

Length and Per Cent of Defects \_\_\_\_\_ inches \_\_\_\_\_ %

Macro Test-Fusion \_\_\_\_\_

Appearance-Fillet Size \_\_\_\_\_ in. X \_\_\_\_\_ in. Convexity or  
Concavity \_\_\_\_\_ in.

Test Conducted by \_\_\_\_\_ Laboratory-Test No. \_\_\_\_\_  
per \_\_\_\_\_ Test Date \_\_\_\_\_

CERTIFICATION OF QUALIFICATION

BY THE RESULTS OF THIS TEST, THIS WELDER IS QUALIFIED TO WELD UNDER THE  
FOLLOWING CONDITIONS:

PROCESS: \_\_\_\_\_ BACKING \_\_\_\_\_

MATERIAL: F-No. \_\_\_\_\_ to F-No. \_\_\_\_\_

THICKNESS RANGE: \_\_\_\_\_ to \_\_\_\_\_

DIAMETER RANGE: \_\_\_\_\_

We certify that the statements in this record are correct and that the test  
welds were prepared, welded and tested in accordance with the requirements of  
Section IX of the ASME code.

Signed \_\_\_\_\_ METROPOLITAN EDISON COMPANY \_\_\_\_\_

Date \_\_\_\_\_ By \_\_\_\_\_  
\_\_\_\_\_ Welding Engineer

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|          |          |          |
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| APPR. BY | APPR. BY | APPR. BY |
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Attachment No. 4  
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DATA - FORMS

QB-484

QB-484 Brazing Performance Qualification Record

RECOMMENDED FORM-PERFORMANCE SPECIFICATION AND  
MANUFACTURER'S RECORD OF BRAZER QUALIFICATION TEST

Specification No. \_\_\_\_\_ Date \_\_\_\_\_  
 Material \_\_\_\_\_ Brazing Alloy P-No. \_\_\_\_\_  
 Material Specification \_\_\_\_\_ Brazing Alloy Classification (SAI) \_\_\_\_\_  
 In Accordance with Procedure Spec No. \_\_\_\_\_  
 Place on Pipe \_\_\_\_\_ Type of Specimen \_\_\_\_\_  
 Metal Thickness \_\_\_\_\_ in. Type of Flux \_\_\_\_\_  
 Type of Joint \_\_\_\_\_ Type Atmosphere and Heat Source \_\_\_\_\_  
 Joint dimensions accord with (length, lap, degree, level). Thickness range this qualifies  
 (see) \_\_\_\_\_ inches to \_\_\_\_\_ inches  
 Brazing Name \_\_\_\_\_ Stamp Number \_\_\_\_\_  
 Test Conducted by \_\_\_\_\_ Test Number \_\_\_\_\_  
 Remarks \_\_\_\_\_

Position of Joint \_\_\_\_\_ **TEST RESULTS**  
 Flat Flow Position \_\_\_\_\_ Type of Test \_\_\_\_\_  
 (see QB-462 Line A) Result \_\_\_\_\_  
 Vertical-Down-Flow Position \_\_\_\_\_ Type of Test \_\_\_\_\_  
 (see QB-462 Line B) Result \_\_\_\_\_  
 Vertical-Up-Flow Position \_\_\_\_\_ Type of Test \_\_\_\_\_  
 (see QB-462 Line C) Result \_\_\_\_\_  
 Horizontal-Flow Position \_\_\_\_\_ Type of Test \_\_\_\_\_  
 (see QB-462 Line D) Result \_\_\_\_\_

We certify that the statements made in this record are correct and that the test brazes were prepared, brazed, and tested in accordance with the requirements of Section IX of the ASME Code.

Signed \_\_\_\_\_  
 (Manufacturer)  
 By \_\_\_\_\_  
 Date \_\_\_\_\_

(Details of record of tests are illustrative only and may be modified to conform to the type and number of tests required by the Code.)

This Form is obtainable from the Order Dept., ASME, 115 E. 47th St., New York, N.Y. 10017

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**NONDESTRUCTIVE TEST PERSONNEL QUALIFICATIONS RECORD** Revision 2 12/22/75

|                            |           |                     |    |    |     |
|----------------------------|-----------|---------------------|----|----|-----|
| NAME                       | AGE       | EMPLOYEE NO.        |    |    |     |
| EYE EXAMINATION DATES      | PASS/FAIL | CORRECT/UNCORRECTED | I  | II | III |
| CERTIFICATION AND TRAINING |           |                     | RT |    |     |
|                            |           |                     | MC |    |     |
|                            |           |                     | UT |    |     |
|                            |           |                     | PT |    |     |
|                            |           |                     | CT |    |     |
|                            |           |                     | VT |    |     |

|           | CERTIFICATION |                  |          | GENERAL        |              |              |              | SPECIFIC       |              |              |              | PRACTICE       |              |              |              |
|-----------|---------------|------------------|----------|----------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|
|           | COMP. DATE    | PERCENTILE GRADE | EXAMINES | ASSIGNED GRADE | NO. OF HOURS | % WT. FACTOR | ACTUAL GRADE | ASSIGNED GRADE | NO. OF HOURS | % WT. FACTOR | ACTUAL GRADE | ASSIGNED GRADE | NO. OF HOURS | % WT. FACTOR | ACTUAL GRADE |
| RT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| MC        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| UT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| PT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| CT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| VT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| LEVEL II  |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| RT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| MC        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| UT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| PT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| CT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| VT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| LEVEL III |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| RT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| MC        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| UT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| PT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| CT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |
| VT        |               |                  |          |                |              |              |              |                |              |              |              |                |              |              |              |

| LEVEL       | COURSE | EDUCATION    |          |             |
|-------------|--------|--------------|----------|-------------|
|             |        | NO. OF YEARS | GRADUATE | CERTIFICATE |
| HIGH SCHOOL |        |              |          |             |
| VOCATIONAL  |        |              |          |             |
| COLLEGE     |        |              |          |             |
| OTHER       |        |              |          |             |
| OTHER       |        |              |          |             |