

# Northwest Louisiana Technical College

## Industrial Maintenance Technology

### Program Description & Curriculum

The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare students for employment in a variety of jobs in the industrial maintenance field. This program prepares individuals to install, repair, and maintain industrial machinery and equipment such as pumps, motors, pneumatic and hydraulic systems, and production machinery.

### Degrees/Certificates

Technical Diploma (TD)

Certificate of Technical Studies (CTS)

Technical Competency Area (TCA)

Available degrees and certificates may vary at each campus. Check with your local campus for more information

**CIP 470303**

| Industrial Maintenance Technology<br>CURRICULUM |   |                    |              |             |
|---|---|--------------------|--------------|-------------|
| Course #  | Course Title                                      | Lecture /Lab Hours | Credit Hours | Clock Hours |
| IMMT 1110                                       | Introduction to Industrial Maintenance Technology | 1/0                | 1            | 15          |
| IMMT 1111                                       | Welding I   | 0/3                | 3            | 135         |
| IMMT 1211                                       | Material Handling                                 | 0/1                | 1            | 30          |
| <b>TCA - Welder Helper</b>                      |   |                    | <b>5</b>     | <b>180</b>  |
| <i>IMMT 1110 plus</i>                           |   |                    |              |             |
| IMMT 1112                                       | Welding II  | 0/2                | 2            | 90          |
| IMMT 1120                                       | Blueprint Reading                                 | 2/0                | 2            | 30          |
| <b>TCA- Fabrication Apprentice</b>              |   |                    | <b>9</b>     | <b>300</b>  |
| <i>IMMT 1110 plus</i>                           |   |                    |              |             |
| IMMT 1311                                       | Pipefitting                                       | 0/2                | 2            | 60          |
| IMMT 1410                                       | Basic Electricity                                 | 1/0                | 1            | 15          |
| IMMT 1411                                       | Basic Electricity Lab                             | 0/3                | 3            | 90          |
| <b>TCA – Electrical Helper</b>                  |   |                    | <b>7</b>     | <b>180</b>  |
| <i>IMMT 1110 plus</i>                           |   |                    |              |             |
| IMMT 1220                                       | Pneumatics  | 3/0                | 3            | 45          |
| IMMT 1221                                       | Pneumatics Application                            | 0/2                | 2            | 90          |
| <b>TCA – Pneumatic Helper</b>                   |   |                    | <b>6</b>     | <b>150</b>  |
| <i>IMMT 1110 plus</i>                           |   |                    |              |             |
| IMMT 1230                                       | Hydraulics  | 3/0                | 3            | 45          |
| IMMT 1231                                       | Hydraulics Application                            | 0/3                | 3            | 135         |
| IMMT 1241                                       | Hydraulics Troubleshooting Projects               | 0/3                | 3            | 135         |
| <b>TCA – Hydraulic Helper</b>                   |   |                    | <b>10</b>    | <b>330</b>  |
| <b>CTS – Pneumatic/Hydraulic Apprentice</b>     |   |                    | <b>29</b>    | <b>915</b>  |
| <i>IMMT 1110 plus</i>                           |   |                    |              |             |
| IMMT 1320                                       | Millwright I                                      | 3/0                | 3            | 45          |
| IMMT 1321                                       | Millwright I Lab                                  | 0/2                | 2            | 90          |

|   |                       |     |           |             |
|---|-----------------------|-----|-----------|-------------|
| <b>TCA – Millwright Helper</b>  |                       |     | <b>6</b>  | <b>150</b>  |
| <i>IMMT 1110, IMMT 1111, IMMT 1211, IMMT 1112, IMMT 1120, IMMT 1311, IMMT 1410, IMMT 1411, IMMT 1220, IMMT 1221, IMMT 1320, IMMT 1321 plus</i>    |                       |     |           |             |
| IMMT 1330   | Millwright II         | 2/0 | 2         | 30          |
| IMMT 1331   | Millwright II Lab     | 0/3 | 3         | 135         |
| <b>CTS – Millwright Apprentice</b>  |                       |     | <b>30</b> | <b>900</b>  |
| IMMT 1430   | Motor Controls        | 0/4 | 4         | 180         |
| JOBS 2450   | Job Seeking Skills    | 2/0 | 2         | 30          |
| <b>TD – Industrial Maintenance Technology</b>   |                       |     | <b>45</b> | <b>1425</b> |
| <i>With approval from the Chief Academic Officer/designee, the following courses may be substituted for any of the above course requirements.</i> |                       |     |           |             |
| IMMT 2991   | Special Projects I    | 0/1 | 1         | 30          |
| IMMT 2993   | Special Projects II   | 0/2 | 2         | 60          |
| IMMT 2995   | Special Projects III  | 0/3 | 3         | 90          |
| IMMT 2996   | Special Projects IV   | 3/0 | 3         | 45          |
| IMMT 2997   | Practicum             | 0/3 | 3         | 135         |
| IMMT 2999   | Cooperative Education | 0/3 | 3         | 135         |