



## Program Assessment Report (PAR)

Technical Study (TS): Skills Trac (ST) Associate Degree

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ACADEMIC YEAR COVERED BY THIS REPORT: 2021-2022

### I. PROGRAM LEARNING OUTCOMES

This program learning outcome combines industry-recognized online curriculum developed by subject matter experts in conjunction with proven hands-on labs for skills validation.

Program learning outcomes include:

1. Understanding the fundamentals of many industrial processes typically used by maintenance technology
2. Ability to trouble-shoot and identify issues within industrial and automation systems.
3. Gaining knowledge to rebuild/repair various types of industrial equipment.
4. Using preventative maintenance techniques to keep equipment running efficiently.
5. Learning skills to retool or repurpose equipment to minimize scrap/downtime issues with various manufacturing & maintenance skills.
6. Learn effective communication skills among their peers and organizational community.

### II. PROCEDURES USED FOR ASSESSMENT

#### A. Direct Assessment

1. Pass rate of 80% or higher on the Basic Maintenance overview online curriculum and completion of Lab #1 used to assess the understanding of the fundamentals of industrial processes.
2. To determine the understanding of the knowledge of how to rebuild/repair industrial equipment, the full series of TEG course pass rate will be reviewed. All courses need to be completed to establish knowledge of repairing industrial equipment.
3. Pass rate of 80% or higher on Basic Industrial Safety online curriculum through ToolingU.
4. Effective communication skills are demonstrated in ENG 1100 pass rate of the course.

## **B. Scoring of Student Work**

The student level of performance is assessed by the following criteria 1. Combination of over 190 online courses and over 50 hands-on labs reviewed by an instructor 2. Each online course administers a final exam and requires minimum score of 80% to pass course 3. Each skill validation lab is administered from lab books and reviewed/approved by instructor assessment 4. Overall TEG course grade is categorized as Pass/Fail based on the online/lab performance

## **C. Indirect Assessment**

An online course assessment is administered by WSU-LC for the TEG courses directly to students for each semester. These results include comments from the students for areas of improvement that may be suggested.

## **III. ASSESSMENT RESULTS/INFORMATION:**

Data was reviewed from all participants of the program. Scores were compiled from courses and the overall program.

When reviewing the data, 71 % of the participants received scores higher than the 80% threshold. All participants completed at least part of the coursework with all but two students receiving a score of 80% or better.

The average score of the students was a 77%

Students who engaged in the online class and the lab were able to score far above the 80% threshold.

#### **IV. ACTIONS TO IMPROVE STUDENT LEARNING**

Several items are being planned to improve learning objectives:

1. Regularly meet with program faculty to assist in program alignment with engineering or engineering technology degrees.
2. Regularly meet with company representatives to ensure graduates are meeting industry trends.
3. Annually meet with advisory board, including manufacturing board members and curriculum board members, to ensure curriculum is common to other local institutions.
4. Align curriculum to local technical/trade schools to prepare for advancement opportunities.
5. Meet with Advisors to answer any questions regarding the requirements of the curriculum.
6. Develop a survey to support measuring the students feelings regarding their understanding of the learning outcomes.

#### **V. SUPPORTING DOCUMENTS**

Additional documentation, when provided, is stored in the internal Academic Program Assessment of Student Learning SharePoint site.