# Hand & Power Tools Course No. 40400 Credit: 0.5

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| **Student name:**  |  | **Graduation Date:** |  |

Pathways and CIP Codes:Aviation Production (15.0000) - Design & Production Strand; **Aviation Maintenance and Operations (47.0607) – Maintenance and Avionics Strand**; Manufacturing (48.0000) - Production & Maintenance Strand

Course Description: Provides **technical level** knowledge used in Aviation and Manufacturing area related to hand and power tools.

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Select the right Tool(s) to effectively complete the job/activity.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Examine job for tool needs. |  |
| 1.2 | Determine proper tool for the job. |  |
| 1.3 | Define the different categories of tools. |  |

## Benchmark 2: Identify common cutting, drilling, layout, striking, holding, sharpeners and griding tools.

Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Identify the use/function of common tools such as layout, striking, holding, sharpener, grinding, cutting, drilling and sanding. |  |
| 2.2 | Identify the use/function of tools found in the lab. |  |

## Benchmark 3: Identify safety practices associated with tools commonly used for layout, striking, holding, sharpening, grinding, cutting, drilling and sanding.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Identify safety practices associated with tools commonly used for layout, striking, holding, sharpening, grinding, cutting, drilling and sanding. |  |
| 3.2 | Identify safety practices associated with tools commonly used for layout, striking, holding, sharpening, grinding, cutting, drilling and sanding. |  |
| 3.3 | Identify safety practices associated with tools commonly used for layout, striking, holding, sharpening, grinding, cutting, drilling and sanding. |  |
| 3.4 | Identify safety practices associated with tools commonly used for layout, striking, holding, sharpening, grinding, cutting, drilling and sanding. |  |

## Benchmark 4: Identify common types of fasteners.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Name common types of fasteners. |  |
| 4.2 | List parts of common types of fasteners. |  |
| 4.3 | Describe how common fasteners work. |  |
| 4.4 | Describe the fastener installation process. |  |

## Benchmark 5: Demonstrate the process to install common fasteners.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 5.1 | Recognize the identification standards used in common fasteners. |  |
| 5.2 | Recognize the codes that identify fasteners. |  |
| 5.3 | Understand the more common materials that fasteners are made of. |  |
|  5.4 | Demonstrate the installation process(s) for common fasteners. |  |

## Benchmark 6: Identify equipment used in the power island.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 6.1 | Identify common power island equipment such as sanders, drills and bandsaws. |  |
| 6.2 | Identify the power island equipment located in the lab. |  |

## Benchmark 7: Demonstrate safety procedures used with power island tools.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 7.1 | Demonstrate safety precautions for common power island equipment such as sanders, drills, and band saws. |  |
| 7.2 | Demonstrate safety procedures for power island tools found in the lab. |  |

## Benchmark 8: Demonstrate the operating procedures of common tools and power island tools.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 8.1 | Effectively operate common power island tools such as drills, band saws and sanders. |  |
| 8.2 | Effectively operate the power island tools found in the laboratory. |  |
| 8.3 | Effectively operate common tools such as layout, striking, holding, sharpening, grinding, cutting, drilling, and sanding tools. |  |
| 8.4 | Effectively operate the common tools found the laboratory. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

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