

1. Qualification Profile to enter MSPT certificate/diploma (SkillSonics Foundation course)

1.1 Main Occupational Competencies

- **Foundation professional competencies (Preparatory training focus)**
 - A.1 Measuring work pieces for linear, angular dimensions & tolerances as per drawing
 - A.2 Practical exposure to manufacturing equipment and engineering

1.2 Professional Competencies

A.1 Measuring work pieces for linear, angular dimensions & tolerances as per drawing	
Sample situation	List of skills and responsibilities
<p>Juan is given the job of checking the parts produced in a factory for and identify the parts that are not meeting the specifications. The component drawing is given to him. He studies the drawing and checks if it is for the component he is going to inspect. He uses the appropriate measuring tools such as scale, vernier caliper, micrometer or height gauge. He knows the importance of taking care of measuring instruments and also knows how to eliminate zero error. He understands the dimension and tolerance symbols used in drawings and also knows how to get tolerance values from the tables.</p> <p>He keeps the measurement and inspection tools ready and sets up the work station or measuring station appropriately. He inspects the parts according to the work plan and documents the measurement and inspection results in the inspection report.</p> <p>He can calculate perimeter, area, volume, weight of different shapes.</p>	<ul style="list-style-type: none"> • Follows the regulations on work safety • Follows the regulations on health safety • Follows the regulations on environmental protection • Understands the work order • Keeps the measuring tools ready • Uses tools and surface plate properly • Checks the dimensions & tolerances • Fills the quality check sheet of parts

A.2 Practical exposure to manufacturing equipment and engineering	
Sample situation	List of skills and responsibilities
<p>Francisco is new to vocational training. He can identify the commonly used equipment in manufacturing. He is aware of the personal and equipment safety. He can fix a job and tool on lathe and milling machine and also can carry out simple basic operations.</p>	<ul style="list-style-type: none"> • Follows the regulations on work safety • Follows the regulations on health safety • Follows the regulations on environmental protection • Uses personal protective equipment

<p>He has theoretical understanding of basic mechanical, electrical, pneumatic, hydraulics & welding principles and their applications. He has gained substantially from industrial visits and has broadened his understanding of how products are made. He is armed with basic knowledge that will help him gain vocational skills</p>	<ul style="list-style-type: none">• Follows factory safety guidelines
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1.3 Requirements/ Entry Competencies

- The candidate should have passed 9th or 10th standard.