

# Manufacturing Skills Standards Council



Manufacturing Skills Certification  
New Mexico Pilot Program

# MSSC Training

- ☀ **Manufacturing Process and Production**
- ☀ **Quality and Continuous Improvement**
- ☀ **Maintenance Awareness**
- ☀ **Safety**

| <b>Integrated Course</b>   | <b>Modular Course</b>  | <b>Fast Track Courses</b>   |
|--|--|---|
| <ul style="list-style-type: none"><li>• 140 hours, full-time, intensive</li><li>• Covers all 4 MSSC modules</li><li>• All 4 assessments given at end of course</li><li>• Best for dislocated workers, summer semester students</li></ul> | <ul style="list-style-type: none"><li>• 48 hours each, three-credit equivalent</li><li>• One course for each of 4 MSSC modules</li><li>• Assessments given at end of each course</li><li>• Best for students in academic semesters</li></ul> | <ul style="list-style-type: none"><li>• 15-18 hours each</li><li>• One course for each of 4 MSSC modules</li><li>• Assessments given at end of each course</li><li>• Best for experienced incumbent workers</li></ul> |

# MSSC Assessments

## **Manufacturing Processes and Production**

- Awareness of customer needs
- Resources for production processes
- Equipment modes & set up
- Equipment monitoring
- Inspection to meet specs
- Product / process documentation
- Product preparation for shipping
- Machine automation
- Electrical principles
- Mechanical principles
- Pneumatic pressure and flow
- Bearings & couplings
- Belt and chain drives

## **Quality and Continuous Improvement**

- Internal quality audits
- Calibration of data collection equipment
- Continuous improvement
- Quality test documentation
- Quality maintenance adjustments
- Communication of quality problems
- Corrective actions
- Recording of process outcomes
- Quality training
- Closed-loop correction action
- Introduction to SPC

## **Maintenance Awareness**

- Preventive maintenance
- Routine repair
- Indicator monitoring
- Equipment maintenance training
- Maintenance of production schedule
- Analysis of breakdowns
- Alignment checks
- Lubrications and coolants
- Blueprint reading
- Circuit analysis
- Tool maintenance
- Preventive actions
- Corrective actions
- Verification and documentations

## **Safety**

- Creation of a safe workplace
- Environmental safety inspections
- Emergency drills
- Correction of unsafe conditions
- Safety orientation training
- Safety equipment use
- Work environment safety
- Safety-related maintenance
- Equipment monitoring for safety
- Operator safety
- Communication of safety problems

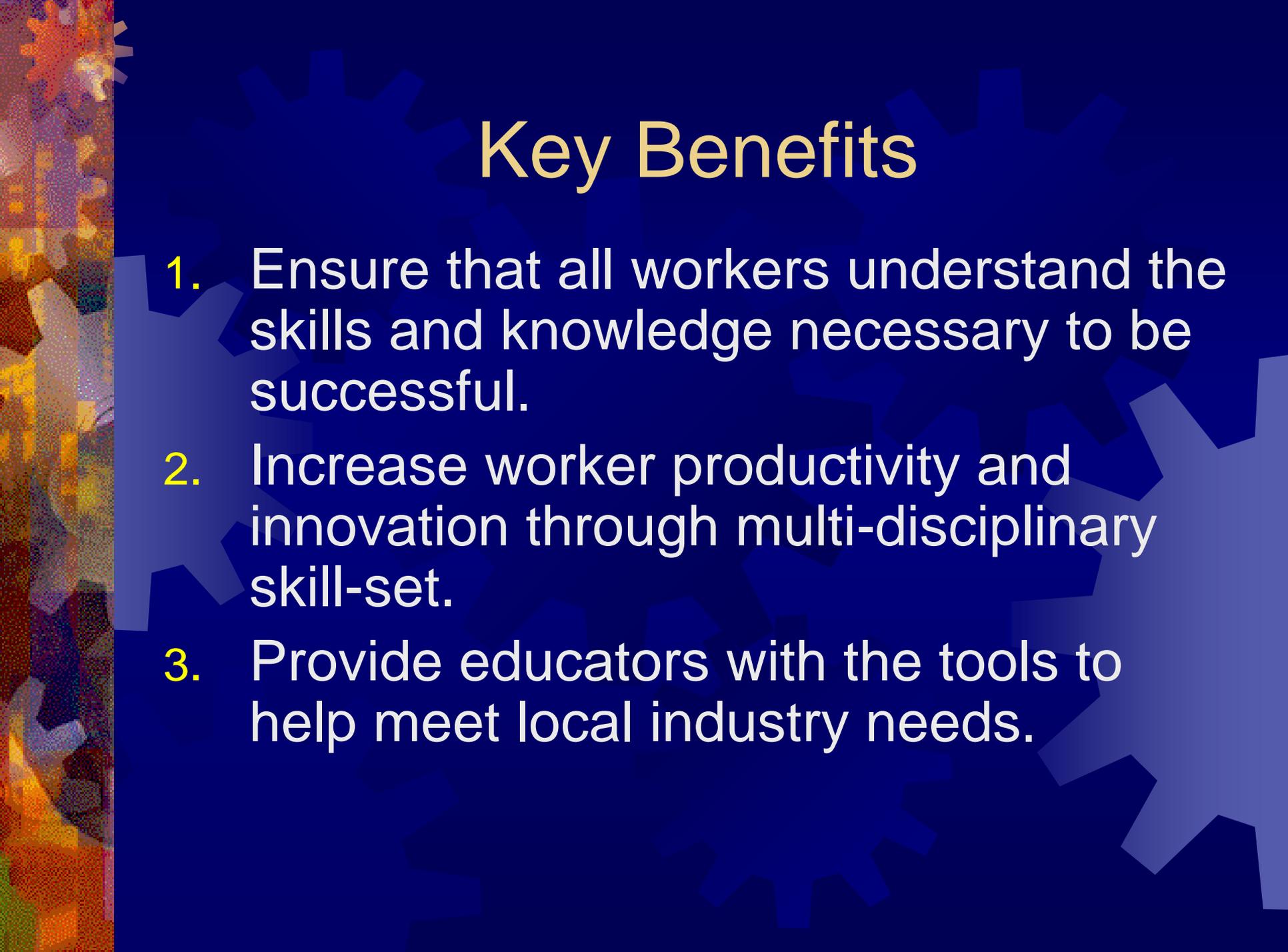


## **Employability Skills**

- Problem Solving
- Decision Making
- Teamwork
- Organization and Planning
- Social Interaction
- Adaptability
- Leadership
- Consensus Building
- Career Awareness and Self-Development

## **Academic Skills**

- Math
- Science
- Reading
- Writing
- Listening
- Speaking
- Computer
- Gathering and Analyzing Information



# Key Benefits

1. Ensure that all workers understand the skills and knowledge necessary to be successful.
2. Increase worker productivity and innovation through multi-disciplinary skill-set.
3. Provide educators with the tools to help meet local industry needs.



