Lesson Title: Measurement Conversion

Lesson Duration: 3-4 hours

Industry Competencies: Students will:

perform unit conversions between the U.S. and metric systems
use dimensional analysis to ensure quantities are reported in appropriate units.

Specific Objectives:

• Students will convert unit measures between the U.S. and metric systems for linear, area, and weight/mass measurements.

Assessment(s): The following rubrics will be used to assess student performance in this lesson.

Competency	Highly	G	Needs
or Task	Competent	Competent	Improvement
Perform conversions	All linear measure-	All linear measure-	One or more linear
of linear measure-	ment conversions are	ment conversions are	measurement
ments using the U.S.	accurate with a high	accurate, but some	conversions are
and metric system.	level of precision.	required re-checking	inaccurate and little
		to ensure accuracy.	attempt to re-check
			accuracy.
Perform conversions	All area measurement	All area measurement	One or more area
of area measurements	conversions are	conversions are	measurement
using the U.S. and	accurate with a high	accurate, but some	conversions are
metric systems.	level of precision.	required re-checking	inaccurate and little
		to ensure accuracy.	attempt to re-check
			accuracy.
Perform conversions	All weight/mass	All weight/mass	One or more area
of weight/mass	conversions are	conversions are	measurement
measurements using	accurate with a high	accurate, but some	conversions are
the U.S. and metric	level of precision.	required re-checking	inaccurate and little
systems.		to ensure accuracy.	attempt to re-check
		1	accuracy.

Competency	Highly		Needs
or Task	Competent	Competent	Improvement
Write clearly and	Topic is fully ad-	Topic is fully	Topic is not addressed
effectively on a	dressed with highly	addressed with	or poorly supported
specific topic.	effective supporting	adequate supporting	with one or more
	information with no	information and no	errors in grammar,
	errors in grammar,	errors in grammar,	spelling, and
	punctuation.	punctuation, or	punctuation.
		spelling.	