



Catalog Addendum #00007 Catalog 2021-2022 v1

EFFECTIVE: 4/14/2022

Description of Change:

Place the MSSC STC consisting of WKO131, WKO132, WKO133, and WKO134 back into the catalog, along with course descriptions of WKO131, WKO132, WKO133, and WKO134 because they were accidentally omitted.

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Manufacturing Skills Standards Council (MSSC) Certification

MSSC is a short-term certificate to implement nationally recognized industry certification programs driven by industries’ hiring practices and workforce occupational forecasts. This STC is comprised of 12 credit hours to include courses in the following areas: Safety, Quality Practices and Measurement, Manufacturing Processes and Production, and Maintenance Awareness.

MSSC - STC

Area I: Written Composition - 0 Cr. Hrs.

Area II: Humanities and Fine Arts - 0 Cr. Hrs.

Area III: Natural Sciences and Mathematics – 0 Cr. Hrs.

Area IV: History, Social and Behavioral Sciences – 0 Credit Hours

Area V: Pre-Professional, Major and Elective Courses - 12 Cr. Hrs.

Course	Title	Credit Hours
WKO131	MSSC Safety Course	3
WKO132	MSSC Quality Practice and Measurement Course	3
WKO133	MSSC Manufacturing Processes and Production Course	3
WKO134	MSSC Maintenance Awareness Course	3

Total Certificate Credit Hours - 12

Course Descriptions

Manufacturing Skills Standards Council (MSSC)

Manufacturing Skills Standards Council (MSSC) Certification

WKO131 – MSSC Safety Course - (3 cr. hrs.)

This course is designed to provide students with knowledge and skills related to safety in a manufacturing environment. Topics covered include: work in a safe and productive manufacturing workplace; perform safety and environmental inspections; perform emergency drills and participate in emergency teams; identify unsafe conditions and take corrective action; provide safety orientation for all employees; train personnel to use equipment safely; suggest process and procedures that support safety of work environment; fulfill safety and health requirements for maintenance, installation and repair; monitor safe equipment and operator performance; and utilize effective, safety-enhancing workplace practices. Students completing this course will receive an MSSC certificate in safety.

WKO132 – MSSC Quality Practice and Measurement Course - (3 cr. hrs.)

This course is designed to provide students with knowledge and skills related to quality practices and measurement in a manufacturing environment. Topics covered include: participate in periodic internal quality audit activities, check calibration of gages and other data collection equipment, suggest continuous improvements, inspect materials and product/process at all stages to ensure they meet specifications, document the results of quality problems, communicate quality problems, take corrective actions to restore or maintain quality, record process outcomes and trends, identify fundamentals of blueprint reading, use common measurement systems and precision measurement tools. This course is equivalent to ADM 106. Students completing this course will receive an MSSC certificate in quality practices and measurement.

WKO133 – MSSC Manufacturing Processes and Production Course - (3 cr. hrs.)

This course is designed to provide students with knowledge and skills related to manufacturing processes and production in a manufacturing environment. Topics covered include: identify customer needs, determine resources available for the production process, set up equipment for the production process, set team production goals, make job assignments, coordinate work flow with team members and other work groups, communicate production and material requirements and product specifications, perform and monitor the process to make the product, document product and process compliance with customer requirements, and prepare final product for shipping or distribution. Students completing this course will receive an MSSC certificate in manufacturing processes and production.

WKO134 – MSSC Maintenance Awareness Course - (3 cr. hrs.)

This course is designed to provide students with knowledge and skills related to maintenance awareness in a manufacturing environment. Topics covered include: prepare preventative maintenance and routine repair; monitor indicators to ensure correct operations; perform all housekeeping to maintain production schedule; recognize potential maintenance issues with basic production systems; including knowledge of when to inform maintenance personnel about problems with electrical systems, pneumatic systems, hydraulic systems, machine automation systems, lubrication systems, and bearings and couplings. Students completing this course will receive an MSSC certificate in maintenance awareness.

Students completing courses WKO 131, 132, 133 and 134 will receive the Certified Production Technician credential.