

FOD/5S FAMILIARIZATION and OVERVIEW

COURSE SYLLABUS

ACADEMIC HOURS:	<u>6.5 hours</u>	PREREQUISITE:	<u>NONE</u>
PRACTICAL EXERCISE	<u>1.5 hours</u>	ENROLLMENT:	<u>12 STUDENTS (MAX)</u>
TOTAL HOURS:	<u>8.0 hours</u>		

Course Description:

This course provides a comprehensive overview of Foreign Object Debris (FOD) and 5S methods and best practices. The FOD module of the course will focus on associated terminology, detection, prevention, removal, and monitoring. Each of these areas contains strategies and practices to help implement FOD programs. The 5S module of the course introduces 5S principals and focus on their gains and benefits. Areas will include how to train, implement, and audit a program. There will be no certification in 5S achieved during this course; however, this will be a familiarization and application course. The course consists of a combination of academic (lecture), activities, and exercises.

This course is recommended for and open to any student seeking knowledge of FOD and 5S. Continuing Education (CE) credit will not be given for this course.

Total Hours: 8.0

Course Learning Objectives:

Upon satisfactory course completion, students will be able to **explain** FOD terminology, apply principles and best practices to detect, prevent, remove and monitor FOD. Additionally, they will **relate** the methodology and theory, best practices and steps in implementing a 5S program in an aerospace environment. Through *class exercises*, students will **practice** at an awareness level, how to effectively execute FOD and 5S programs within the industry.

Personal Protective Equipment (PPE):

All required Personal Protective Equipment will be provided students at beginning of course.

Examinations:

No testing will be administered; however, there will be practical exercises, and no credit is awarded.

Textbooks Requirements:

No Text Books are used. All required text or written material will be provided to student at time of class delivery.

Grading Policy:

No grades will be awarded.

Course Schedule (Proposed):

Module 1 (FOD – FOREIGN OBJECT DEBRIS):

Module Duration: 2.5 hours Academic (Lecture)

This module consists of: Instructor introduction, student introduction, general class set-up, course expectations, safety briefing; FOD terminology, sources and impact of FOD, basic principles, best practices, and detection methods (prevention, monitoring and elimination) of FOD; and knowledge assessment to measure student comprehension. *The student begins developing basic understanding through introduction of Foreign Object Debris (FOD) that emphasizes safety and recognition. Lecture, Discussion and Demonstration are the delivery methods used in this Module.*

All needed Personal Protective Equipment will be provided to the Student.

Module 2 (5S):

Module Duration: 4.0 hours Academic (Lecture) and 1.5 hours (Practical Exercises)

This module consists of: Introduction of 5S principles (Sort, Set-in-Place, Shine, Standardize, and Sustain); Knowledge of the gains and benefits of 5S as part of a lean manufacturing environment; Implementation of an effective 5S program through effective training, design, and auditing. Knowledge assessments and practical exercises to measure student comprehension. *The student begins developing basic understanding through introduction of 5S that emphasizes safety and recognition. Lecture, Demonstration and Hands-On are the delivery methods used in this Module.*

All needed Materials and Personal Protective Equipment will be provided to the Student.
