

## M250 2023 Class Schedule

Course/Code	Days	Objectives	Topics of Discussion	2023 Classes
All Series M250 Engine Familiarization	2	Upon completion of this course each student will be able to identify variants of the M250 engine, and the sub-components thereof. Additionally, students will become familiar with the engines operating principles, servicing requirements and limitations.	Principles of turbine engine operation Variant identification Component identification and materials Engine module design principles Engine systems and operation Introduction to maintenance publications	January 11-12, 2023 May 24-25, 2023 August 30-31, 2023
M250 Series II/IV Heavy Maintenance	10	Upon completion of this course each student will be familiar with line maintenance activities covered in the M250 Maintenance Course. Additionally, students will participate in disassembly of the modules beyond field maintenance levels to accommodate in-depth understanding of design features unique to the M250 engine. Abbreviated overhaul disassembly/reassembly procedures will be utilized to develop student confidence and abilities. Extensive student/instructor interaction is encouraged to develop a level of understanding that will significantly enhance troubleshooting skills. Students attending the Heavy Maintenance Course will be provided an opportunity to tour the manufacturing and production assembly areas unless plant operations at the time of the course preclude this activity.	<ul style="list-style-type: none"> <li>• See 'M250 Maintenance' items</li> </ul> Remove and replace: <ul style="list-style-type: none"> <li>• All engine modules</li> <li>• Subcomponents required for field maintenance procedures</li> <li>• Disassemble major module subcomponents</li> </ul>	<u>II</u> April 17-28, 2023 October 9-20, 2023  <u>IV</u> March 6-17, 2023 June 19-30, 2023 December 4-15, 2023
M250 Series IV C40,C47,C30R/3 Engine Maintenance	5	Upon completion of this course each student will be familiar with line maintenance activities outlined in the appropriate Operation and Maintenance Manual for the engine variant designated by the student. Exposure to relevant inspection techniques, special tooling, engine-specific procedures and maintenance publications will be provided in classroom and laboratory environments	Principles of turbine engine operation <ul style="list-style-type: none"> <li>• Engine module design principles</li> <li>• Component identification and materials</li> <li>• Engine systems and operation</li> <li>• M250 maintenance publications</li> <li>• Relevant M250 service bulletins and service letters</li> </ul> Remove and replace: <ul style="list-style-type: none"> <li>• All engine modules and accessories</li> <li>• Subcomponents required for field maintenance procedures</li> </ul>	February 6-10, 2023 July 10-14, 2023

## M250 2021-2022 Class Schedule

Course/Code	Days	Objectives	Topics of Discussion	2023 Classes
M250 C47E/4 Engine Maintenance	5	Upon completion of this course each student will be familiar with line maintenance activities outlined in the appropriate Operation and Maintenance Manual for the engine variant designated by the student. Exposure to relevant inspection techniques, special tooling, engine-specific procedures and maintenance publications will be provided in classroom and laboratory environments	Principles of turbine engine operation <ul style="list-style-type: none"> <li>• Engine module design principles</li> <li>• Component identification and materials</li> <li>• Engine systems and operation</li> <li>• M250 maintenance publications</li> <li>• Relevant M250 service bulletins and service letters</li> </ul> Remove and replace: <ul style="list-style-type: none"> <li>• All engine modules and accessories</li> <li>• Subcomponents required for field maintenance procedures</li> </ul>	<u>C47E/4 FADEC</u> June 5-9, 2023 September 25-29, 2023 October 30-Nov 3, 2023
All M250 Series II/T63 Engine Maintenance	5	Upon completion of this course each student will be familiar with line maintenance activities outlined in the appropriate Operation and Maintenance Manual for the engine variant designated by the student. Exposure to relevant inspection techniques, special tooling, engine-specific procedures and maintenance publications will be provided in classroom and laboratory environments.	<ul style="list-style-type: none"> <li>• Principles of turbine engine operation</li> <li>• Engine module design principles</li> <li>• Component identification and materials</li> <li>• Engine systems and operation</li> <li>• M250 maintenance publications</li> <li>• Relevant M250 service bulletins and service letters</li> </ul>	February 20-24, 2023 September 11-15, 2023

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# RR300 2023 Class Schedule

Course/Code	Days	Objectives	Topics of Discussion	2023 Classes
All Series RR300 Engine Maintenance GL4705	4	This course is delivered in a blended format with classroom lecture, computer-aided instruction, and task-driven laboratory sessions to provide students with 'hands-on' experience on the engine. In short order the students will develop the foundation of knowledge and skills necessary to inspect, maintain and determine serviceability of the engine at the line maintenance level. Topics include safety, warnings, and precautions, engine and engine system servicing, routine maintenance & inspection, principle component replacement and introductory-level trouble-shooting.	<p>Upon completion of the course, the student will be able to...</p> <ul style="list-style-type: none"> <li>• Recall the safety precautions observed working on or near the engine and Identify locations of principle components,</li> <li>• Describe the normal function of the engine sections and of each major system,</li> <li>• Recall procedures for carrying out significant tasks associated with routine servicing of the engine and its systems,</li> <li>• Recall and perform procedures for replacement of principle components using approved technical data.</li> </ul>	<p>January 23-27, 2023  March 27-31, 2023  May 8-12, 2023  July 24-28, 2023  November 13-17, 2023</p>
RR300 Engine Maintenance for Service Centers GL4889	10	This Course is primarily task-driven to provide the students “hands on” experiences necessary to establish Service Center capability for engine repair. Topics include safety, warnings, and precautions, component inspections and principal component replacement. Service Center Training includes additional days, subsequent to attending the Engine Maintenance course. The stated cost is inclusive of the additional days of attendance. NOTE: We cannot accept students into this program whose employers have not entered into an agreement with the Rolls-Royce Aftermarket Support organization as a Service Center for the RR300.	<p>Upon completion of the course, the student will be able to...</p> <ul style="list-style-type: none"> <li>• Recall the safety precautions working on or near the engine and identify principle location of components.</li> <li>• Describe the level of disassembly appropriate to Service Center level maintenance.</li> <li>• Recall procedures for carrying out significant tasks associated with Service Center repair capabilities.</li> <li>• Recall and preform procedures of replacement of principle component using approved technical data.</li> </ul>	<p>Contact Register:  +1 (317) 230-2586  Jill Jupin  <a href="mailto:Jill.Jupin@Rolls-Royce.com">Jill.Jupin@Rolls-Royce.com</a></p>
RR300/M250 Vibration Analysis 12888	-	This interactive e-learning course is designed to provide background information, demonstrations and basic trouble shooting procedures which will enable students to preform vibration analysis on M250 & RR300 engines. The knowledge provided in this course is designed to supplement the information available to the technician in the applicable maintenance manuals.	<p>Upon completion of this course the student will be able to:</p> <ul style="list-style-type: none"> <li>• Understand the importance of the vibration testing procedures</li> <li>• Prepare for the vibration test</li> <li>• Execute the vibration test</li> <li>• Interpret data gathered during the vibration test</li> <li>• Indicate vibration limitations</li> <li>• Implement basic vibration test troubleshooting procedures</li> <li>• Extrapolate vibration test data</li> </ul>	Free On-line Training

## RR300 2021-2022 Class Schedule

Course/Code	Days	Objectives	Topics of Discussion	2021 /2022 Classes
RR300 Fuel System Training 13413	-	This interactive e-learning course is designed to provide background information, demonstrations and system details of the RR300 fuel control system. The knowledge provided in this course is designed to supplement the information available to the technician in the applicable maintenance manuals.	<p>Upon completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> <li>Describe the importance of the fuel control system in the RR300 engine operation</li> <li>Describe the system components and their functions</li> <li>Relate which components operate based on N1 or N2 reference</li> <li>Describe the flow sequence through the system</li> <li>Relate critical system adjustments for engine start characteristics</li> <li>Locate primary components within the system schematic</li> </ul>	Free On-Line Training
RR300 Lubrication System Training 13720	-	This interactive e-learning course is designed to provide background information demonstrations and system details of the RR300 lubrication system. The knowledge provided in this course is designed to supplement the information available to the technician in the applicable maintenance manuals.	<p>Upon completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> <li>Describe the importance of the lubrication system in the RR300 engine operation</li> <li>Describe the system components and their functions</li> <li>Relate which components are engine versus airframe-related</li> <li>Describe the flow sequence through the system</li> <li>Locate components within the system schematic</li> </ul>	Free On-Line Training
RR300 Gas Path Cleaning 13650	-	This interactive e-learning course is designed to provide background information, and task demonstrations which will aid RR300 engine maintainers who are performing the Gas Path Cleaning task. The knowledge provided in this course is designed to supplement the information available to the technician in the applicable maintenance manuals.	<p>Upon completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> <li>Describe why this task is required</li> <li>Describe when this task is required</li> <li>Properly perform Gas Path Cleaning task</li> </ul>	Free On-Line Training

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