



USAF TECHNICAL TRAINING NAS Pensacola Florida



Develop America's Airmen Today --- for Tomorrow

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TECHNICAL TRAINING



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OVERVIEW

- ❁ **2A733 Aircraft Structural Maintenance (ASM) Apprentice Course**
- ❁ **2A735 Low Observable (LO) ASM Apprentice Course**
- ❁ **Supplemental Courses**

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TPR

(Trained Personnel Requirements)

- ❁ **2A733 Apprentice Course 2011 TPR = 482**
- ❁ **2A735 Apprentice Course 2011 TPR = 182**
- ❁ **Supplemental Courses 2011 TPR = 325**



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ASM Apprentice Course

JCABP2A733 048C

8 Blocks – 76 Days – 608 Hours

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ASM Block 1 - Fundamentals of ASM

62.5 Hours

- Federal Hazardous Communication Program
- AFOSH – OPSEC – Air Force Basic Doctrine
- Aircraft Construction Features
- Metal Identification/Characteristics
- Metal Layout
- Non-powered cutting
- Sharp Bends



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ASM Block 2 - Fabrication of Aircraft Parts

64 Hours

- Setback and Bend Allowance
- Radius Bends
- Hand and Machine Forming



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ASM Block 3 - Preparation for Structural Assy

84 Hours

- Power Cutting
- Rivet Identification and Rivet Pattern Layout
- Pneumatic Drilling, Countersinking, and Dimpling

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ASM Block 4 – Research and Repair

66 Hours

- Technical Orders and Aircraft Documentation
- Classification of Damage and Stop Drilling Cracks
- Hazardous Material Storage and Shelf Life Program
- Corrosion Concepts, Prevention, and Removal
- Aircraft Tubing and Cable Assemblies

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ASM Block 5 – Aircraft Structural Repair

64 Hours

- Pneumatic Riveting
- Non-flush Repair
- Sealed Repair
- Flanged Hole Repair

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ASM Block 6 – Special Assemblies

76 Hours

- Combination Repair
- Access Door/Access Panel
- Flush repair
- Trimming/Fitting Aircraft Skins
- Nutplates and Special Fasteners
- Blind Rivets



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ASM Block 7 – Composite Repairs

100 Hours

- Fiberglass Repairs
- Bonded Honeycomb Repairs
- Vacuum Bagging and Hot Bonder
- Introduction to Advanced Composites
- Advanced Composite Repairs



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ASM Block 8 – Corrosion Control

92.5 Hours

- Coating Application
- Methods of Coating Removal
- PMB Booth/Cabinet
- Application of Primer /Coating



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JCABP2A735 048A

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Blocks similar to 2A733 course.

- Block 1 (61.5 hours) – Same as 2A733
- Block 2 (41 hours) – No hand forming
- Block 3 (77 hours) – No dimpling
- Block 5 (55 Hours) – No flanged hole repair



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LO Block 4 – T.O.'s, Documentation, Damage Classification & Tubing

42 Hours

- Technical Orders and Aircraft Documentation (same as ASM)
- Classification of Damage and Stop Drilling Cracks (same as ASM)
- Aircraft Tubing Assemblies (no cable)
- Blind Rivets
- Nut Plates and High Stress Fasteners



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LO Block 6 – Composite Repairs

87 Hours

- Fiberglass Repairs
- Bonded Honeycomb Repairs (no metal bond)
- Vacuum Bag and Hot Bonder
- Introduction to Advanced Composites
- Advanced Composite Repairs

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LO Block 7 – Corrosion Control

94 Hours

- Hazardous Materials and Shelf Life
- Corrosion Theory/Prevention/Removal
- Coating Application/Removal
- Application of Primer/Coatings
- PMB Booth/Cabinet



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LO Block 8 – Low Observables

130.5 Hours

- Fundamentals
- Theory and Materials
- Removal/Application Process
- Racetracking
- Paint Stack-up Application
- Coating Removal
- Filler and RAM Application
- Fill and Fair Method



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Supplemental Courses

Course	Length	2011 TPR
Corrosion Prevention Control – <i>MTT Only</i>	3 Days	1
Aircraft Balancing and Fasteners	6 Days	69
Aircraft Metal Bonded Repair	12 Days	97
General Advanced Composites	16 Days	146
Basic Repairs to Advanced Composites – <i>MTT Only</i>	7 Days	12

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Questions?

E-Mail Andrew.Svendsen@tyndall.af.mil

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