

# Senior cadet training

ACP 35  
Communications  
Volume 4

## Satellite communications



Course	Communications, Satellite communications, ACP 35 volume 4		
Lesson Number	Chapter	Title	Notes
1	1	Space	<ol style="list-style-type: none"> <li>1. The final frontier</li> <li>2. What is space?</li> <li>3. Operating in a vacuum</li> <li>4. Steps in space</li> <li>5. Self assessment questions</li> </ol>
	2	Into orbit	<ol style="list-style-type: none"> <li>1. What is a satellite?</li> <li>2. Achieving orbit</li> <li>3. Self assessment questions</li> </ol>
2	3	Launch vehicles	<ol style="list-style-type: none"> <li>1. Rocket propulsion</li> <li>2. Rocket theory</li> <li>3. The rocket motor</li> <li>4. Solid propellant rocket</li> <li>5. Efficiency and specific impulse</li> </ol>
3			<ol style="list-style-type: none"> <li>1. Typical fuels</li> <li>2. Multi stage rockets</li> <li>3. Re-usable vehicles</li> <li>4. The space shuttle</li> <li>5. The soviet shuttle</li> <li>6. Self assessment questions</li> </ol>
4	4	Satellites	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. You can use satellites</li> <li>3. History and development</li> <li>4. Commercial interests</li> <li>5. Observatories</li> </ol>
5			<ol style="list-style-type: none"> <li>1. Earth resource satellites</li> <li>2. Weather satellites</li> <li>3. Communications satellites</li> <li>4. Satellite navigation system (GPS)</li> <li>5. Self assessment questions</li> </ol>
6	5	Space communications	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Leaving earth behind</li> <li>3. How far is "far"?</li> <li>4. How fast is "fast"?</li> <li>5. Problems in space</li> </ol>
7			<ol style="list-style-type: none"> <li>1. Getting there – in theory</li> <li>2. Getting there – for real</li> <li>3. Is anyone out there?</li> <li>4. Hubble space telescope</li> <li>5. Self assessment questions</li> </ol>
8		Revision	Past Papers
9		Revision	Past Papers
10		Revision	Past Papers