Ref: 7458

None

No. of people killed



Number of people on board

2 + 0

SOUTH AFRICAN CIVIL AVIATION AUTHORITY

ACCIDENT REPORT – EXECUTIVE SUMMARY

None

Aircraft Registration	ZS-REH		Date of Accident	1 February 2002		Ti	Time of Accide		1300Z
Type of Aircraft	ROBINSO	2 BETA	Type of Operation Recurrent Tr			inin	g		
Pilot-in-command License Type			Commercial	Age	27	Li	License Valid Yes		S
Pilot-in-command Flying Experience			Total Flying Hours	3 850.0		Н	Hours on Type 1		400.0
Last point of departure FAG			FAGM - Rand Airport (Germiston)						
Next point of intended landing FAC			FAGM						
Location of the accident site with reference to easily defined geographical points (GPS readings if possible)									
FAGM									
Meteorological Inform	formation Approaching thunderstorm, Wind - 350°/12kts, Temperature +25°C								

An instructor pilot, accompanied by a private pilot was engaged in recurrent training (dual check ride) after the private pilot was on a three-month layoff period. The flight was mainly to consist

No. of people injured

of emergencies and applicable exercises, which included an auto-rotation from 500 feet above ground level from the downwind position (180° Auto-rotation with Power Recovery).

According to the instructor the first part of the auto-rotation went well due to the fact that the turn rate was slow. As more bank was applied the rate of descent (R.O.D.) increased to what he described as an abnormally high rate of descent. He then realized that they should abort the

described as an abnormally high rate of descent. He then realized that they should abort the maneuver and initiated the recovery with an early flare coming out of the turn. However the aircraft continued to descend at a high rate, with limited time available to recover. He opened the throttle and applied collective with slight flare all the way until the point of impact. The aircraft touched down at an indicated airspeed of approximately 30-35kts. On impact the main rotor blades severed the tail boom and the skid gear assembly collapsed. The aircraft remained upright and once it came to a halt both occupants disembarked uninjured.

Probable Cause

With an approaching thunderstorm from the south (causing severe wind gust conditions) the instructor pilot continued with the auto-rotation in a westerly direction. He therefore did not compensate for the change in wind direction, which resulted in an abnormally high rate of descent with insufficient height available to recover.